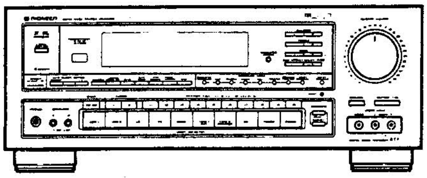
**PIONEER**
*The Art of Entertainment*

# Service Manual



ORDER NO.
ARP2554

## AUDIO/VIDEO STEREO RECEIVER

# VSX-D701S
# VSX-D601

VSX－D701S AND VSX－D601 HAVE THE FOLLOWING :

| Type | Model | | Power Requirement | Remarks |
|---|---|---|---|---|
| | VSX－D701S | VSX－D601 | | |
| KU | ○ | ○ | AC120V only | |
| KC | ○ | ○ | AC120V only | |
| SD | ○ | — | AC110V, 120V－127V, 220V, 240V (Switchable) | |

- This manual is applicable to the following : VSX－D701S/KU, KC and SD ; VSX－D601/KU and KC.
- For the following : VSX－D701S/KC and SD ; VSX－D601/KU and KC, refer to page 94.

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**This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.**
**Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.**

WARNING
**Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).**
**When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.**

# 1. SAFETY INFORMATION

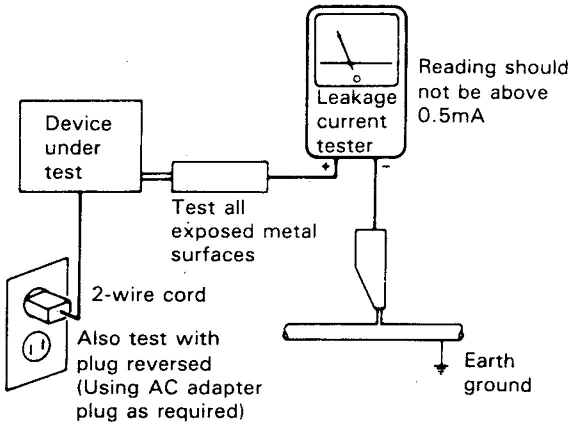
(FOR USA MODEL ONLY)

## 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

**LEAKAGE CURRENT CHECK**

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Device under test
Leakage current tester
Reading should not be above 0.5mA
+
-
Test all exposed metal surfaces
2-wire cord
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

**ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.**

## 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

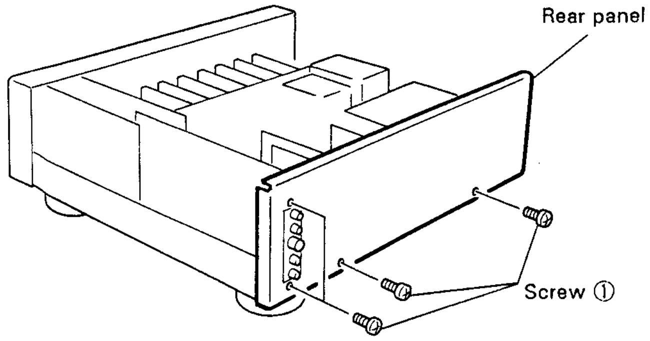
Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

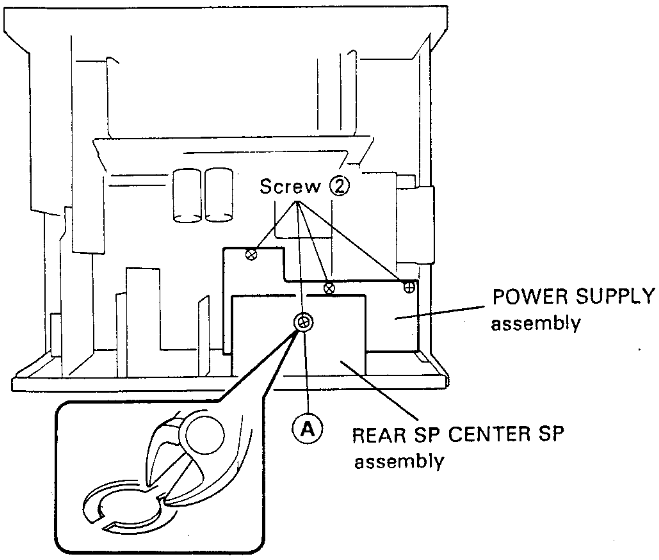
# 2. DISASSEMBLY

## 2.1 POWER SUPPLY ASSEMBLY

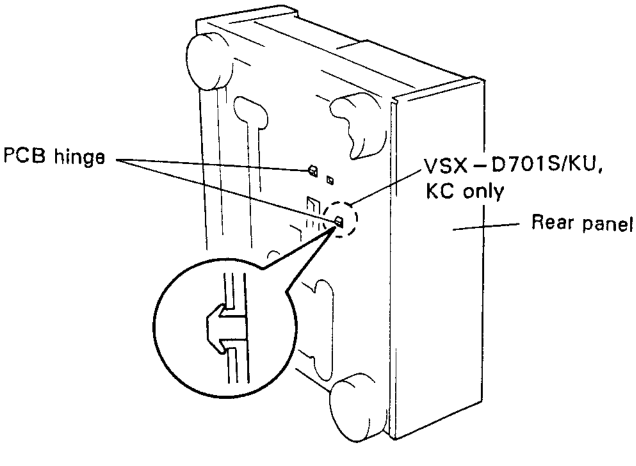
1. Remove the bonnet case (7 screws).
2. Remove the screws on the rear panel. (four screws ①).


Rear panel
Screw ①

3. Use nippers to cut at Ⓐ in the REAR SP CENTER SP assembly.
4. Remove the screws on the POWER SUPPLY assembly. (four screws ②)

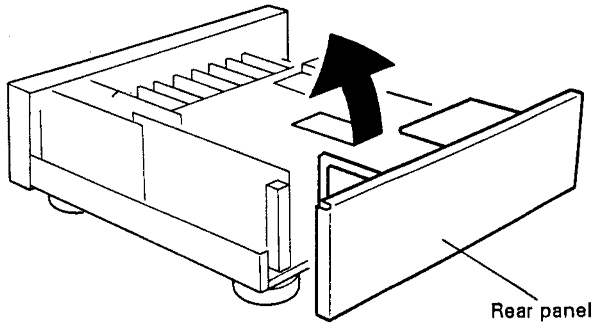

Screw ②
POWER SUPPLY assembly
Ⓐ
REAR SP CENTER SP assembly

5. Stand the unit upright, and use fine-nosed pliers to press in the PCB hinge on the rear panel.


PCB hinge
VSX-D701S/KU, KC only
Rear panel

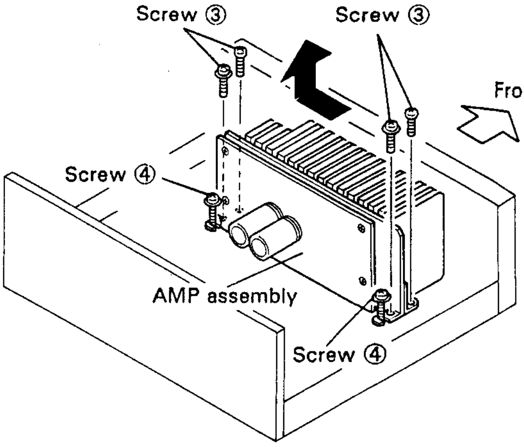
*Note :*
*Avoid shorting the unit by using an insulation sheet or similar between transformer TP and other assemblies when positioning the unit securely.*

6. Return the unit to its original position. Pull the rear panel toward the operator and securely place it so that the side with the POWER SUPPLY assembly buttons are visible.

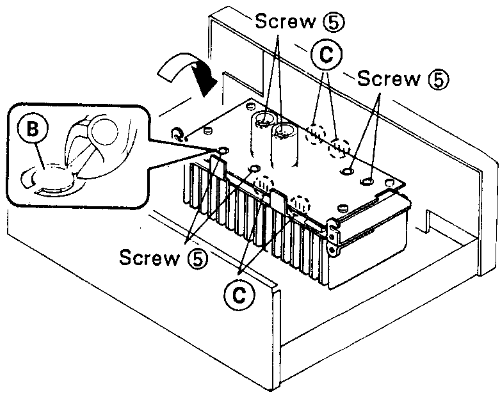


## 2.2 AMP ASSEMBLY

1. Remove the four heat sink locking screws ③ and loosen the two regular screws④.
2. Cut the binder with nippers.


Screw ③
Screw ③
Front
Screw ④
AMP assembly
Screw ④

3. Cut the AMP assembly at Ⓑ with nippers and then remove the six screws ⑤.
4. Remove the transistor solder at Ⓒ (four locations).


Screw ⑤
Ⓒ
Screw ⑤
Ⓑ
Screw ⑤
Ⓒ

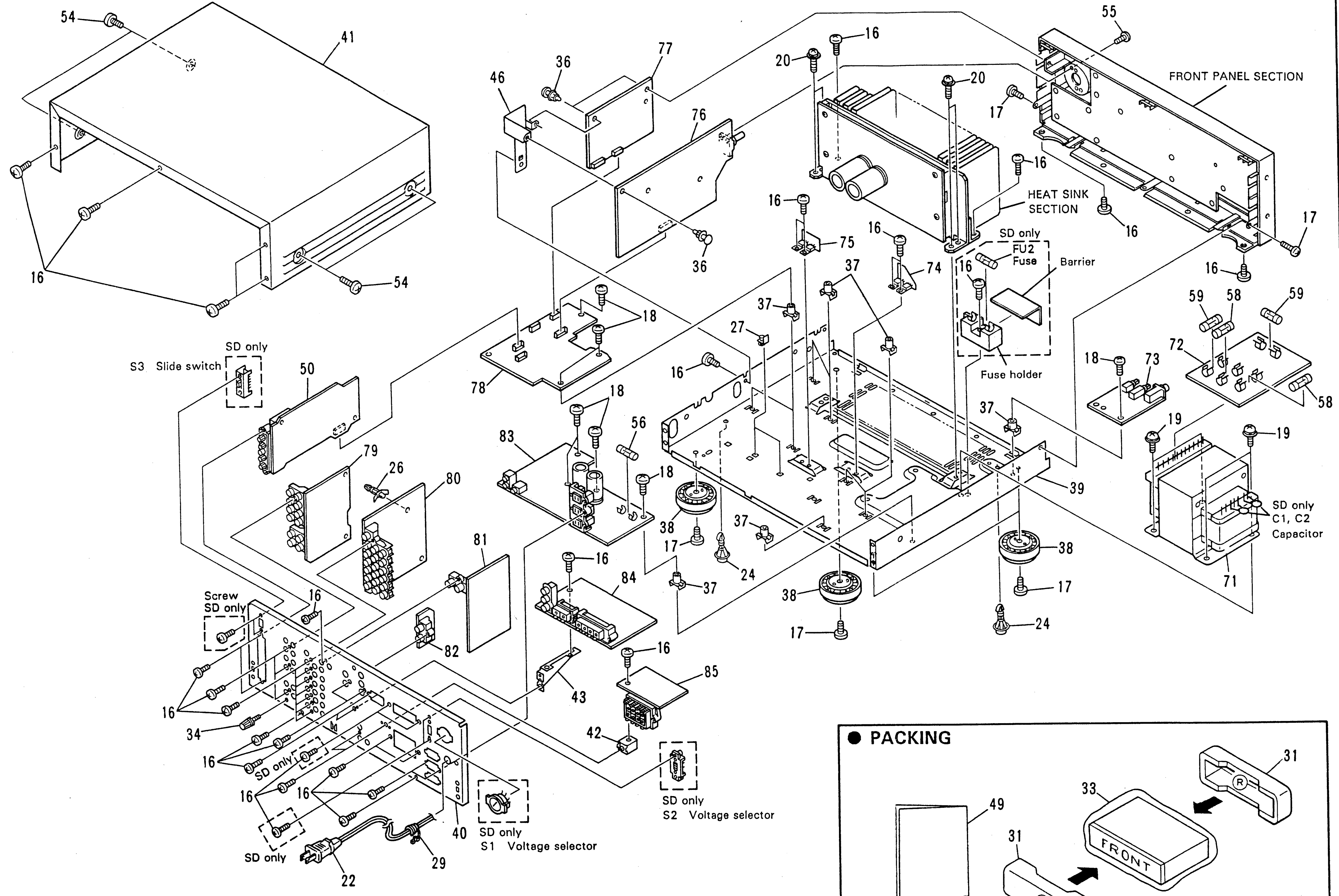
# 2. EXPLODED VIEWS, PACKING AND PARTS LIST

*NOTES:*
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

**Parts list of Exterior and Packing**

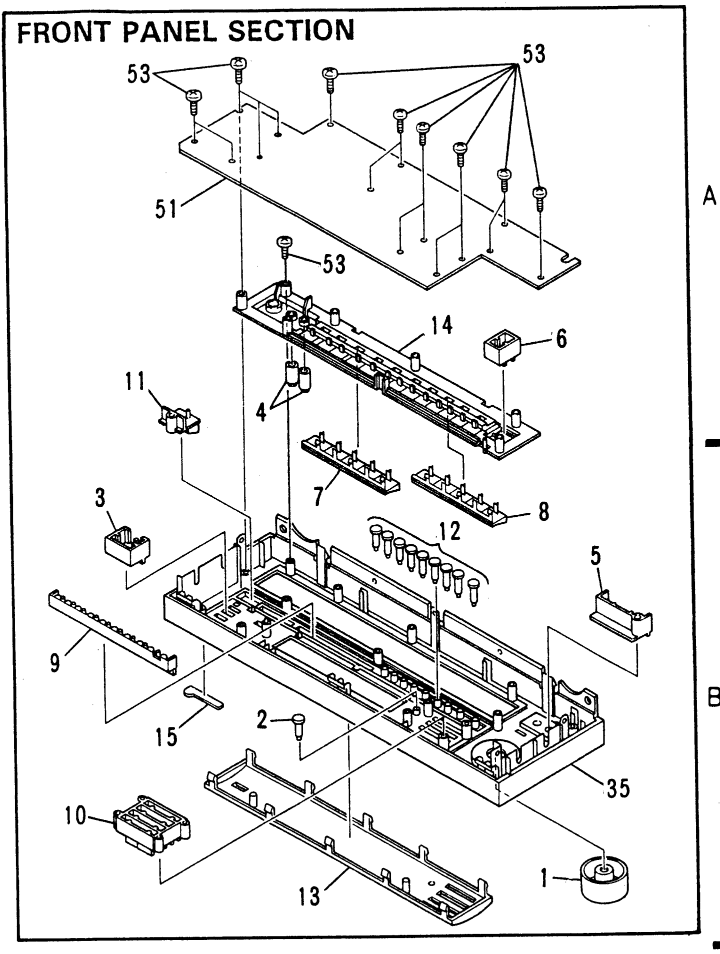
| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | 1 | MASTER VOL ASSEMBLY | AAB1119 |
| | 2 | KIN BUTTON | AAD1609 |
| | 3 | M&S KNOB | AAD1997 |
| | 4 | SP BUTTON (PLS) | AAD2211 |
| | 5 | MUTE BUTTON (PLS) | AAD2264 |
| | 6 | ACOUSTIC BUTTON (PLS) | AAD2265 |
| | 7 | FUNCTION BUTTON L | AAD2266 |
| | 8 | FUNCTION BUTTON R | AAD2267 |
| | 9 | TX FUNCTION BUTTON | AAD2270 |
| | 10 | BUTTON (PLS) | AAD2271 |
| | 11 | POWER BUTTON (PLS) | AAD2272 |
| | 12 | KIN BUTTON | AAD2273 |
| | 13 | DISPLAY PANEL | AAK2296 |
| | 14 | SASH (PLS) | AAK2298 |
| | 15 | NAME PLATE (METAL) | AAM1029 |
| | 16 | SCREW | ABA-298 |
| | 17 | SCREW (STEEL) | ABA1009 |
| | 18 | SCREW | ABA1018 |
| | 19 | SCREW (STEEL) | ABA1053 |
| | 20 | SCREW | ABA1054 |
| | 21 | SCREW | ABA1082 |
| ⚠ | 22 | AC POWER CORD | ADG1058 |
| | 23 | FM ANTENNA | ADH1004 |
| NSP | 24 | PCB HOLDER | AEC1097 |
| | 25 | MICA SHEET | AEC1140 |
| NSP | 26 | PCB SUPPORT | AEC1215 |
| NSP | 27 | PCB HINGE | AEC1407 |
| | 28 | MICA SHEET | AEE1014 |
| | 29 | CORD STOPPER | AEP-113 |
| NSP | 30 | ALKALINE (LR6, AA) | AEX1007 |
| | 31 | FRONT REAR PAD | AHA1503 |
| | 32 | PACKING CASE | AHD2281 |
| | 33 | PACKING SHEET | AHG1021 |
| NSP | 34 | TERMINAL SCREW | AKE-031 |
| | 35 | FRONT PANEL | AMB1991 |
| | 36 | RIVET (PLASTIC) | AMR1066 |
| NSP | 37 | PCB MOULD | AMR1525 |
| | 38 | FOOT ASSEMBLY | AMR2414 |
| NSP | 39 | CHASSIS | ANA1178 |
| NSP | 40 | REAR PANEL | ANC1896 |
| | 41 | METAL BONNET (MTL) | ANE1373 |
| NSP | 42 | PCB HOLDER | ANG-502 |
| NSP | 43 | PCB HOLDER A | ANG-516 |
| NSP | 44 | SUB TRANS HOLDER | ANG1393 |
| NSP | 45 | POWER ASSEMBLY HOLDER -F | ANG1575 |
| NSP | 46 | PCB HOLDER | ANG1670 |
| NSP | 47 | POWER ASSEMBLY HOLDER -R | ANG1683 |
| NSP | 48 | HEAT SINK | ANH1379 |
| | 49 | OPE. INSTRUCTIONS (ENGLISH) | ARB1380 |
| ◉ | 50 | TUNER ASSEMBLY | AWE1140 |
| ◉ | 51 | FL. U-COM ASSEMBLY | AWK1548 |
| | 52 | REMOTE CONTROL UNIT (CU-VSX048) | AXD1268 |
| | 53 | SCREW | BPZ26P080FMC |
| | 54 | SCREW | FBT40P060FZK |
| | 55 | SCREW | VMZ30P060FCU |
| ⚠ | 56 | FUSE (8A, FU1) | AEK1002 |
| | 57 | ……………… | |
| ⚠ | 58 | FUSE (4A, FU3, 4) | AEK-125 |
| ⚠ | 59 | FUSE (1.25A, FU5, 6) | AEK-120 |
| | 60 | LOOP ANTENNA (L) | ATB1005 |
| ⚠ | 61 | TRANSISTOR (Q1) | 2SC3281 |
| ⚠ | 62 | POWER TRANSISTOR (Q10) | 2SA1803 |
| ⚠ | 63 | TRANSISTOR (Q2) | 2SC3281 |
| ⚠ | 64 | TRANSISTOR (Q3) | 2SA1302 |
| ⚠ | 65 | TRANSISTOR (Q4) | 2SA1302 |
| ⚠ | 66 | TRANSISTOR (Q5) | 2SC3182N |
| ⚠ | 67 | TRANSISTOR (Q6) | 2SA1265N |
| ⚠ | 68 | POWER TRANSISTOR (Q7) | 2SC4688 |
| ⚠ | 69 | POWER TRANSISTOR (Q8) | 2SC4688 |
| ⚠ | 70 | POWER TRANSISTOR (Q9) | 2SA1803 |
| ⚠ | 71 | POWER TRANSFORMER (T1) | ATS1426 |
| NSP | 72 | TRANS TP ASSEMBLY | AWZ4268 |
| ◉ | 73 | SP SW ASSEMBLY | AWZ4289 |
| ◉ | 74 | REG (5.6V) ASSEMBLY | AWZ4267 |
| ◉ | 75 | REG (12V) ASSEMBLY | AWZ4266 |
| ◉ | 76 | VOLUME ASSEMBLY | AWZ4292 |
| ◉ | 77 | DSP ASSEMBLY | AWZ4294 |
| ◉ | 78 | CONNECTION ASSEMBLY | AWZ4291 |
| ◉ | 79 | AUDIO FUNCTION ASSEMBLY | AWZ4263 |
| ◉ | 80 | A/V FUNCTION ASSEMBLY | AWZ4290 |
| ◉ | 81 | OSD ASSEMBLY | AWZ4295 |
| ◉ | 82 | PRE OUT ASSEMBLY | AWZ4272 |
| ◉ | 83 | POWER SUPPLY ASSEMBLY | AWZ4287 |
| ◉ | 84 | REAR SP CENTER SP ASSEMBLY | AWZ4288 |
| NSP | 85 | FRONT SP ASSEMBLY | AWZ4257 |
| ◉ | 86 | AMP ASSEMBLY | AWZ4286 |
| NSP | 87 | PCB HOLDER | ANG1726 |

## ● EXTERIOR

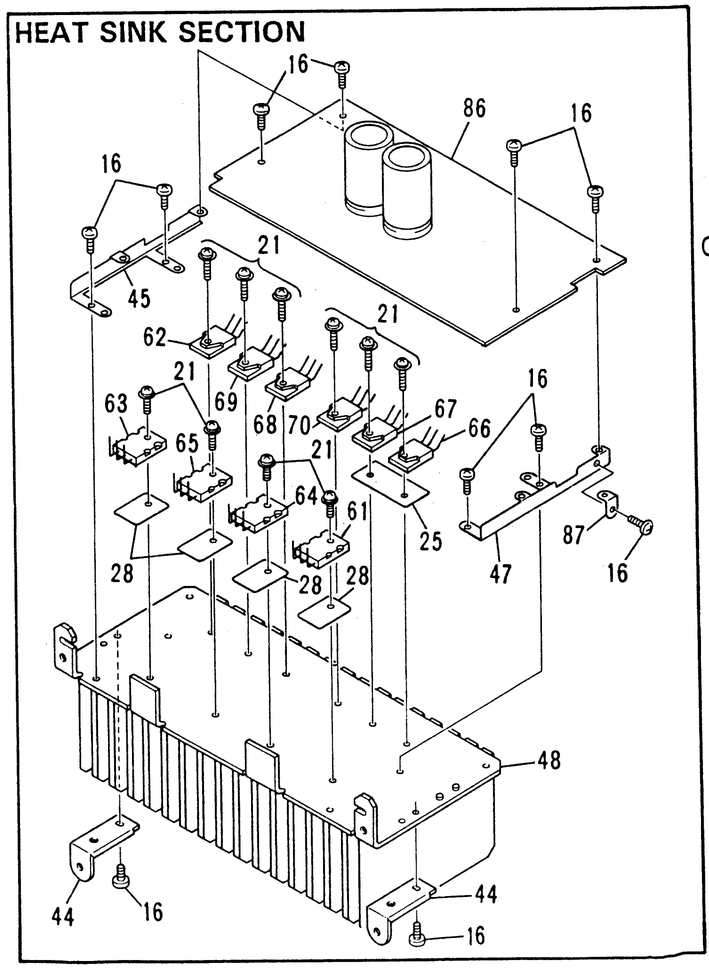

54
41
16
54
46
36
77
76
36
20
16
20
17
16
55
FRONT PANEL SECTION
HEAT SINK SECTION
16
17
16
75
16
74
37
37
27
18
16
78
SD only
FU2
Fuse
Barrier
Fuse holder
16
59
58
59
72
73
18
58
19
19
37
39
SD only
S3 Slide switch
50
79
26
80
83
18
56
18
38
17
24
37
38
17
24
37
38
17
16
71
SD only
C1, C2
Capacitor
81
84
16
Screw
SD only
16
82
16
85
43
42
16
34
16
SD only
16
16
40
SD only
S1 Voltage selector
SD only
S2 Voltage selector
SD only
22
29

NOTE : Screws adjacent to ▼ mark on the product are used for disassembly.

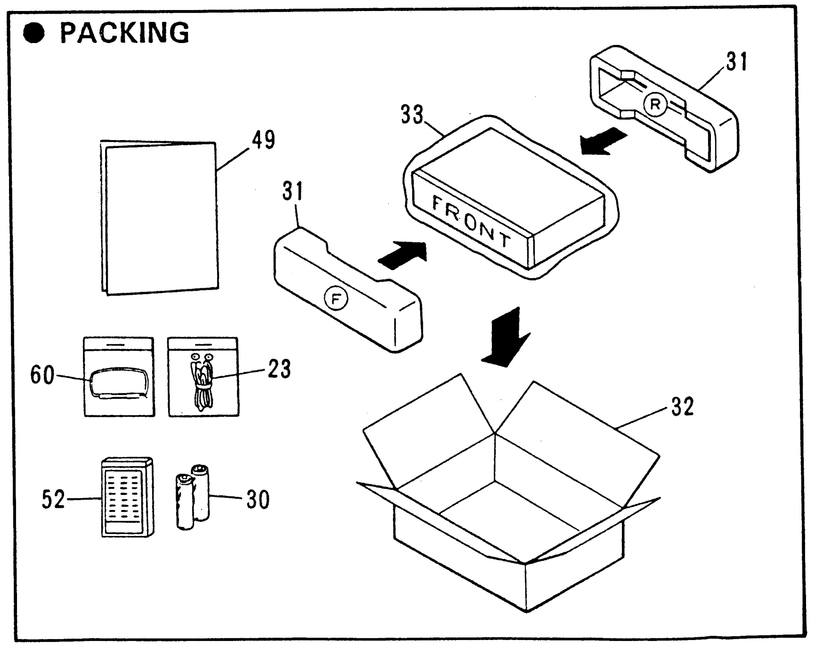
## FRONT PANEL SECTION


53
53
51
53
14
6
11
4
7
8
3
12
5
9
15
2
35
10
13
1

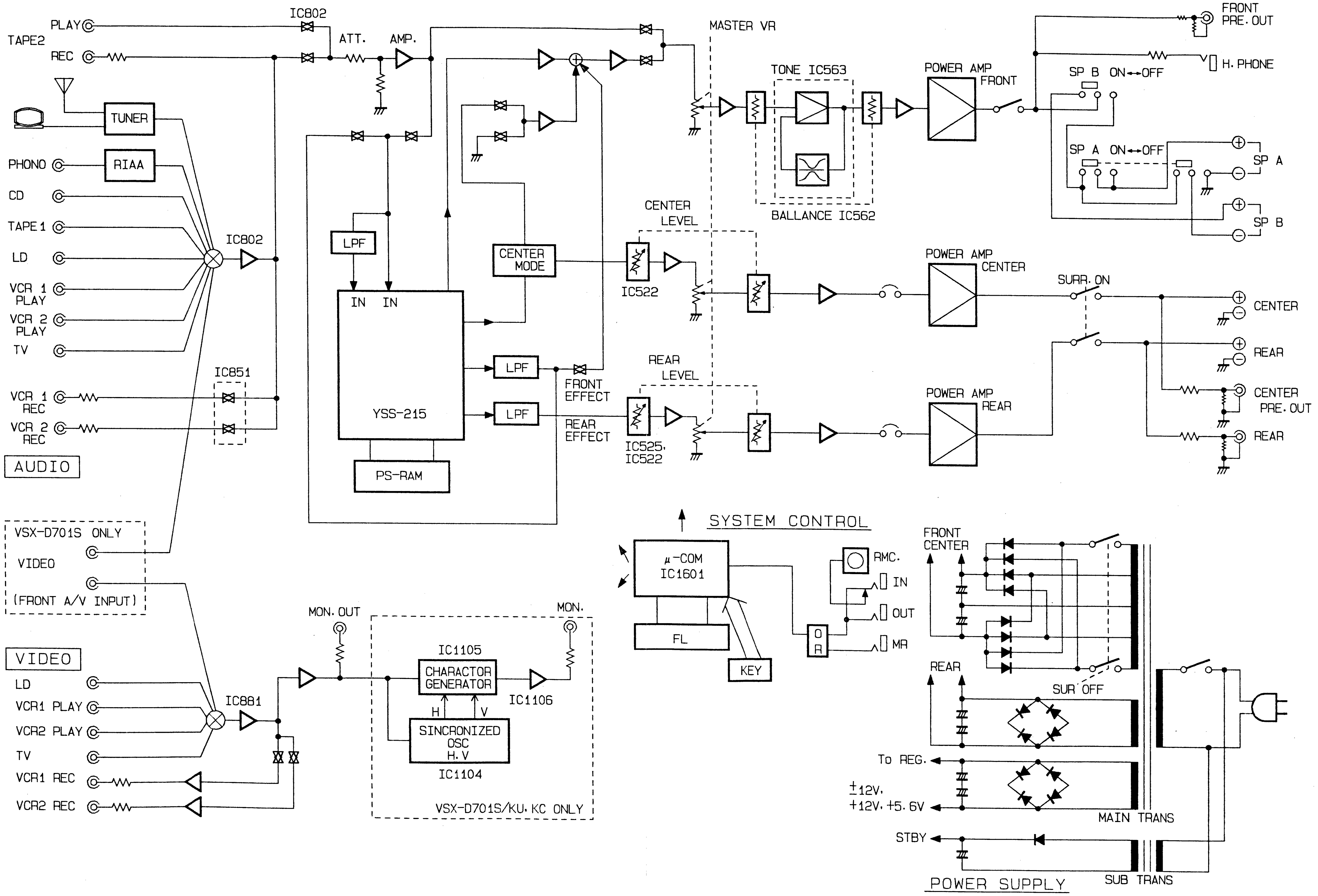
## HEAT SINK SECTION


16
86
16
16
45
21
62
21
69
68
70
21
67
66
63
65
16
21
64
61
25
47
87
16
28
28
28
48
44
16
44
16

## ● PACKING

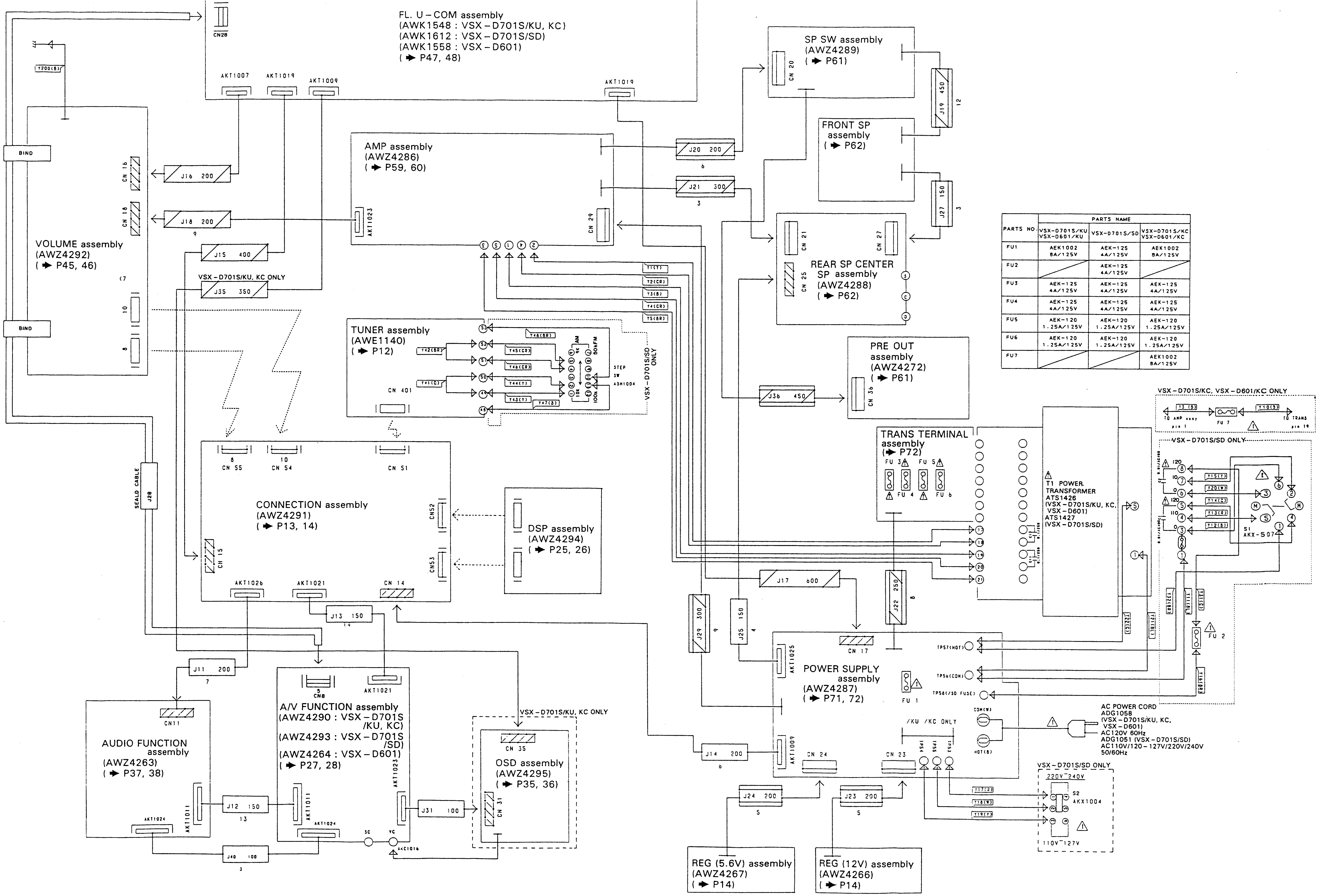

31
33
49
31
FRONT
R
F
60
23
32
52
30

# 4. BLOCK DIAGRAM

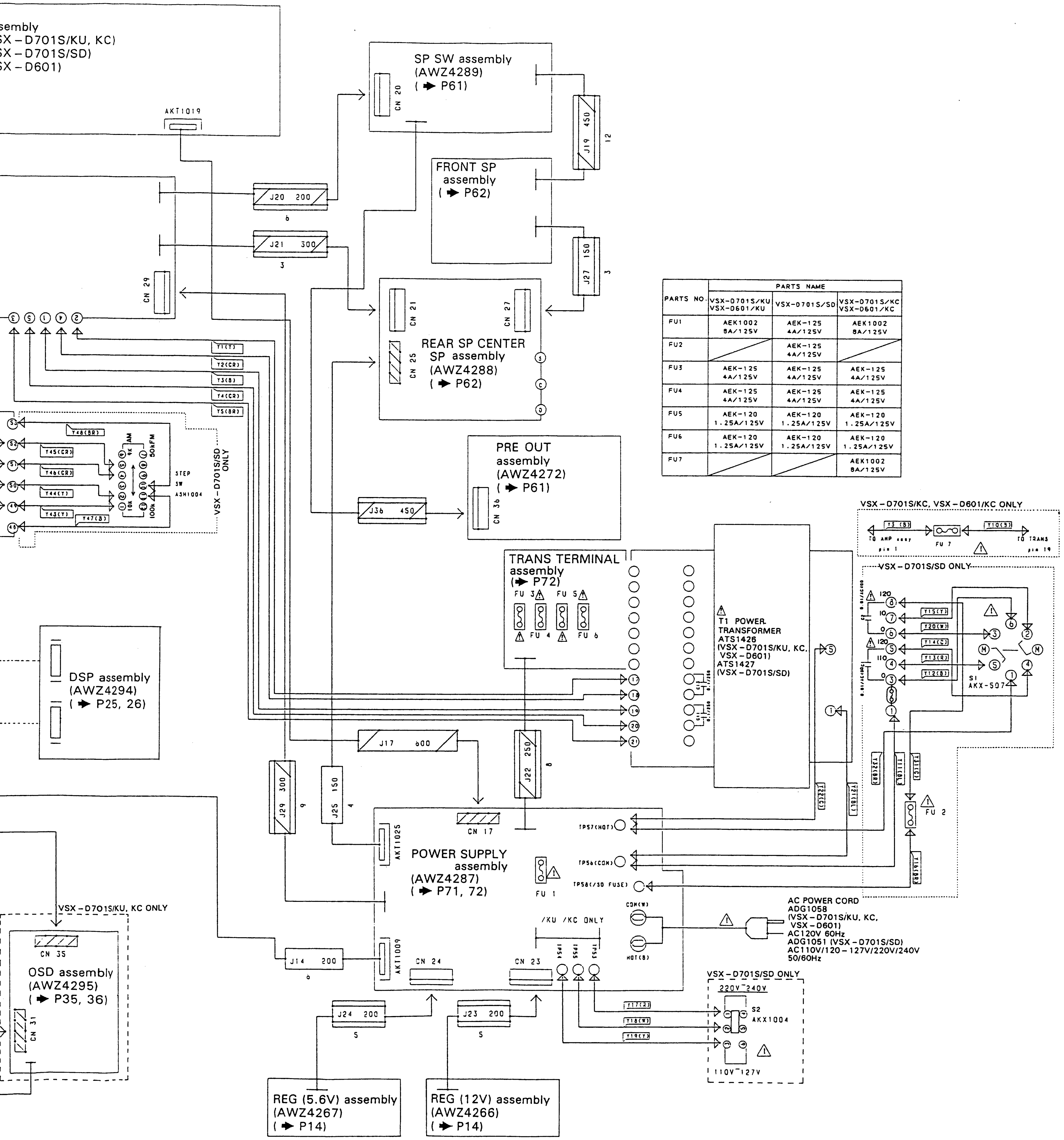

TAPE2
PLAY
REC
IC802
ATT.
AMP.
MASTER VR
TONE IC563
BALLANCE IC562
POWER AMP
FRONT
FRONT PRE. OUT
H. PHONE
SP B ON↔OFF
SP A ON↔OFF
SP A
SP B
TUNER
PHONO
RIAA
CD
TAPE 1
LD
VCR 1 PLAY
VCR 2 PLAY
TV
IC802
LPF
IN
IN
YSS-215
PS-RAM
CENTER MODE
CENTER LEVEL
IC522
POWER AMP
CENTER
SURR. ON
CENTER
REAR
CENTER PRE. OUT
REAR
LPF
FRONT EFFECT
LPF
REAR EFFECT
REAR LEVEL
IC525, IC522
POWER AMP
REAR
IC851
VCR 1 REC
VCR 2 REC
AUDIO
VSX-D701S ONLY
VIDEO
(FRONT A/V INPUT)
VIDEO
LD
VCR1 PLAY
VCR2 PLAY
TV
VCR1 REC
VCR2 REC
IC881
MON. OUT
MON.
IC1105
CHARACTOR GENERATOR
H
V
IC1106
SINCRONIZED OSC H. V
IC1104
VSX-D701S/KU, KC ONLY
SYSTEM CONTROL
μ-COM IC1601
FL
KEY
RMC.
IN
OUT
MR
O R
FRONT CENTER
REAR
SUR OFF
To REG.
±12V,
+12V, +5.6V
MAIN TRANS
STBY
SUB TRANS
POWER SUPPLY

# 5. SCHEMATIC AND PCB CONNECTIONS DIAGRAMS

## 5.1 OVERALL SCHEMATIC DIAGRAM


FL. U-COM assembly
(AWK1548 : VSX-D701S/KU, KC)
(AWK1612 : VSX-D701S/SD)
(AWK1558 : VSX-D601)
( ➡ P47, 48)
CN28
AKT1007
AKT1019
AKT1009
AKT1019
T200(B)
BIND
BIND
VOLUME assembly
(AWZ4292)
( ➡ P45, 46)
CN 16
CN 18
10
8
J16 200
J18 200
J15 400
VSX-D701S/KU, KC ONLY
J35 350
AMP assembly
(AWZ4286)
( ➡ P59, 60)
AKT1023
CN 29
J20 200
J21 300
Y1(Y)
Y2(CR)
Y3(B)
Y4(CR)
Y5(BR)
SP SW assembly
(AWZ4289)
( ➡ P61)
CN 20
J19 450
FRONT SP
assembly
( ➡ P62)
J27 150
REAR SP CENTER
SP assembly
(AWZ4288)
( ➡ P62)
CN 21
CN 27
CN 25
PRE OUT
assembly
(AWZ4272)
( ➡ P61)
J36 450
CN 36
TUNER assembly
(AWE1140)
( ➡ P12)
CN 401
Y42(BR)
Y41(C)
Y48(BR)
Y45(CR)
Y46(CR)
Y44(Y)
Y43(Y)
Y47(B)
AM
9K
50kFM
10K
100K
STEP
SW
ASH1004
VSX-D701S/SD ONLY
SEALD CABLE
J28
CONNECTION assembly
(AWZ4291)
( ➡ P13, 14)
CN 55
CN 54
CN 51
CN52
CN53
CN 15
AKT1026
AKT1021
CN 14
DSP assembly
(AWZ4294)
( ➡ P25, 26)
J13 150
J11 200
AUDIO FUNCTION
assembly
(AWZ4263)
( ➡ P37, 38)
CN11
AKT1011
AKT1024
J12 150
J40 100
A/V FUNCTION assembly
(AWZ4290 : VSX-D701S/KU, KC)
(AWZ4293 : VSX-D701S/SD)
(AWZ4264 : VSX-D601)
( ➡ P27, 28)
CN8
AKT1021
AKT1011
AKT1023
AKT1024
SC
VC
AKC1016
VSX-D701S/KU, KC ONLY
OSD assembly
(AWZ4295)
( ➡ P35, 36)
CN 35
CN 31
J31 100
TRANS TERMINAL
assembly
( ➡ P72)
FU 3
FU 4
FU 5
FU 6
T1 POWER
TRANSFORMER
ATS1426
(VSX-D701S/KU, KC,
VSX-D601)
ATS1427
(VSX-D701S/SD)
J17 600
J22 250
J29 300
J25 150
POWER SUPPLY
assembly
(AWZ4287)
( ➡ P71, 72)
CN 17
AKT1025
AKT1009
CN 24
CN 23
TP57(HOT)
TP56(COM)
TP58(/SD FUSE)
FU 1
COM(W)
HOT(B)
/KU /KC ONLY
TP54
TP55
TP53
J14 200
J24 200
J23 200
REG (5.6V) assembly
(AWZ4267)
( ➡ P14)
REG (12V) assembly
(AWZ4266)
( ➡ P14)
VSX-D701S/KC, VSX-D601/KC ONLY
Y3 (B)
Y10(B)
TO AMP assy
pin 1
FU 7
TO TRANS
pin 19
VSX-D701S/SD ONLY
120
10
0
120
110
0
Y15(Y)
Y20(W)
Y14(C)
Y13(R)
Y12(B)
S1
AKX-507
Y22(C)
Y21(BL)
Y32(BR)
Y11(BL)
Y31(C)
Y16(BR)
FU 2
AC POWER CORD
ADG1058
(VSX-D701S/KU, KC,
VSX-D601)
AC120V 60Hz
ADG1051 (VSX-D701S/SD)
AC110V/120-127V/220V/240V
50/60Hz
VSX-D701S/SD ONLY
220V-240V
S2
AKX1004
110V-127V
Y17(R)
Y18(W)
Y19(Y)

| PARTS NO. | PARTS NAME | | |
|---|---|---|---|
| | VSX-D701S/KU<br>VSX-D601/KU | VSX-D701S/SD | VSX-D701S/KC<br>VSX-D601/KC |
| FU1 | AEK1002<br>8A/125V | AEK-125<br>4A/125V | AEK1002<br>8A/125V |
| FU2 | | AEK-125<br>4A/125V | |
| FU3 | AEK-125<br>4A/125V | AEK-125<br>4A/125V | AEK-125<br>4A/125V |
| FU4 | AEK-125<br>4A/125V | AEK-125<br>4A/125V | AEK-125<br>4A/125V |
| FU5 | AEK-120<br>1.25A/125V | AEK-120<br>1.25A/125V | AEK-120<br>1.25A/125V |
| FU6 | AEK-120<br>1.25A/125V | AEK-120<br>1.25A/125V | AEK-120<br>1.25A/125V |
| FU7 | | | AEK1002<br>8A/125V |


sembly
SX-D701S/KU, KC)
SX-D701S/SD)
SX-D601)
AKT1019
SP SW assembly
(AWZ4289)
(➜ P61)
CN 20
J19 450
12
FRONT SP
assembly
(➜ P62)
J27 150
3
J20 200
6
J21 300
3
CN 29
CN 21
CN 27
REAR SP CENTER
SP assembly
(AWZ4288)
(➜ P62)
CN 25
T1(T)
T2(CR)
T3(B)
T4(CR)
T5(BR)
T48(BR)
T45(CR)
T46(CR)
T44(T)
T43(T)
T47(B)
STEP SW
ASH1004
AM
FM
VSX-D701S/SD ONLY
PRE OUT
assembly
(AWZ4272)
(➜ P61)
J36 450
CN 36
TRANS TERMINAL
assembly
(➜ P72)
FU 3
FU 5
FU 4
FU 6
T1 POWER TRANSFORMER
ATS1426
(VSX-D701S/KU, KC, VSX-D601)
ATS1427
(VSX-D701S/SD)
VSX-D701S/KC, VSX-D601/KC ONLY
T3 (B)
T10(B)
TO AMP assy pin 1
FU 7
TO TRANS pin 14
VSX-D701S/SD ONLY
120
110
0
S1
AKX-507
T15(T)
T20(W)
T14(C)
T13(B)
T12(B)
FU 2
DSP assembly
(AWZ4294)
(➜ P25, 26)
J17 600
J22 250
8
J29 300
9
J25 150
4
CN 17
TP57(HOT)
TP56(COM)
TP58(/SD FUSE)
POWER SUPPLY
assembly
(AWZ4287)
(➜ P71, 72)
AKT1025
FU 1
/KU /KC ONLY
COM(W)
HOT(B)
AC POWER CORD
ADG1058
(VSX-D701S/KU, KC, VSX-D601)
AC120V 60Hz
ADG1051 (VSX-D701S/SD)
AC110V/120-127V/220V/240V
50/60Hz
VSX-D701S/KU, KC ONLY
CN 35
OSD assembly
(AWZ4295)
(➜ P35, 36)
CN 31
J14 200
0
AKT1009
CN 24
CN 23
VSX-D701S/SD ONLY
220V 240V
S2
AKX1004
110V 127V
T17(2)
T18(W)
T19(T)
J24 200
5
J23 200
5
REG (5.6V) assembly
(AWZ4267)
(➜ P14)
REG (12V) assembly
(AWZ4266)
(➜ P14)

<table>
<tr><th rowspan="2">PARTS NO.</th><th colspan="3">PARTS NAME</th></tr>
<tr><th>VSX-D701S/KU<br>VSX-D601/KU</th><th>VSX-D701S/SD</th><th>VSX-D701S/KC<br>VSX-D601/KC</th></tr>
<tr><td>FU1</td><td>AEK1002<br>8A/125V</td><td>AEK-125<br>4A/125V</td><td>AEK1002<br>8A/125V</td></tr>
<tr><td>FU2</td><td></td><td>AEK-125<br>4A/125V</td><td></td></tr>
<tr><td>FU3</td><td>AEK-125<br>4A/125V</td><td>AEK-125<br>4A/125V</td><td>AEK-125<br>4A/125V</td></tr>
<tr><td>FU4</td><td>AEK-125<br>4A/125V</td><td>AEK-125<br>4A/125V</td><td>AEK-125<br>4A/125V</td></tr>
<tr><td>FU5</td><td>AEK-120<br>1.25A/125V</td><td>AEK-120<br>1.25A/125V</td><td>AEK-120<br>1.25A/125V</td></tr>
<tr><td>FU6</td><td>AEK-120<br>1.25A/125V</td><td>AEK-120<br>1.25A/125V</td><td>AEK-120<br>1.25A/125V</td></tr>
<tr><td>FU7</td><td></td><td></td><td>AEK1002<br>8A/125V</td></tr>
</table>

**Note:** (Type 1)

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
4. **CAPACITORS:**
   Unit: p:pF or μF unless otherwise noted.
   Ratings: capacitor (μF)/ voltage (V) unless otherwise noted.
   Rated voltage: 50V except for electrolytic capacitors.
5. **COILS:**
   Unit: m:mH or μH unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
   V : Signal voltage at rated output.
   □ : DC voltage (V) at no input signal unless otherwise noted. Value in ( ) is DC voltage at rated power.
   ⇦ mA or ← mA : DC current at no input signal unless otherwise noted.
7. **OTHERS:**
   - ➜ : Signal route.
   - ⊘ : Adjusting point.
   - ▼ (Red) : Measurement point.
   - The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. **SWITCHES** (Underline indicates switch position):

| | |
|---|---|
| S1 | LINE VOLTAGE SELECTOR (VSX-D701S/SD ONLY)<br>AC110V/120-127V/220V/240V |
| S2 | LINE VOLTAGE SELECTOR (VSX-D701S/SD ONLY)<br>AC110-127V/220-240V |
| S3 | SLIDE SWITCH (9k/10k)(VSX-D701S/SD ONLY) |

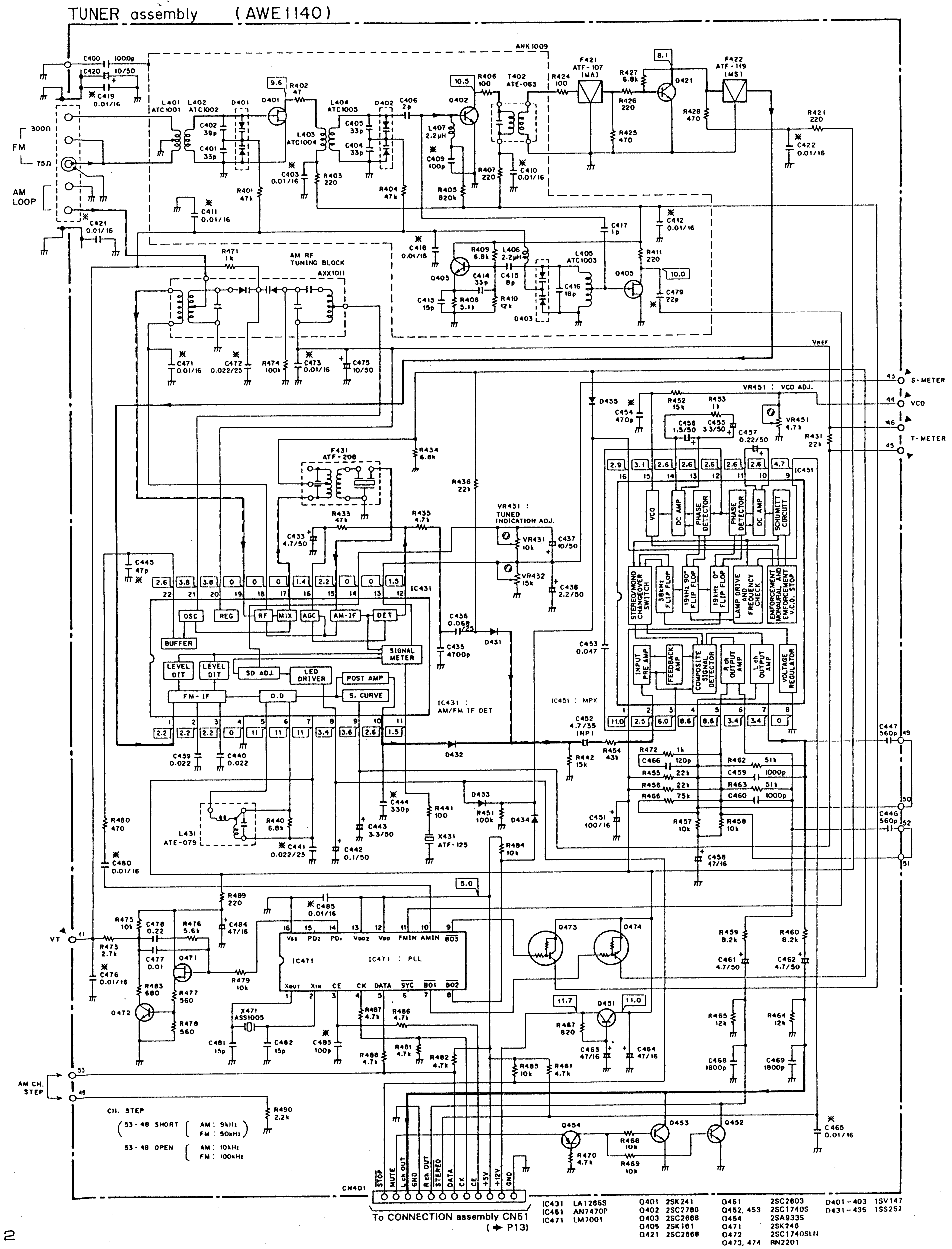
FL. U-COM assembly

| | |
|---|---|
| S601 | SIMULATED STEREO |
| S603 | POWER |
| S604 | ASC MEMORY |
| S605 | THEATER |
| S606 | VIDEO SELECTOR |
| S607 | BAND |
| S608 | ASC 1 |
| S609 | PROLOGIC THEATER |
| S611 | TUNING DOWN |
| S612 | ASC 2 |
| S613 | EFECT DOWN |
| S614 | VCR 1 |
| S615 | TUNING UP |
| S616 | MEMORY |
| S617 | BASS DOWN |
| S618 | VCR 2 |
| S619 | 1 |
| S620 | CUSTOM SELECT |
| S621 | TREBLE DOWN |
| S622 | LD |
| S623 | 2 |
| S624 | SCAN |
| S625 | PROLOGIC |
| S626 | TV |
| S627 | 3 |
| S628 | AUTO MONO |
| S629 | BALANCE LCH |
| S630 | VIDEO (VSX-D701S ONLY) |
| S631 | 4 |
| S632 | AUTO MANUAL |
| S633 | EFECT UP |
| S634 | TAPE 1/DAT |
| S635 | 5 |
| S636 | DIRECT ACCESS |
| S637 | BASS UP |
| S638 | TAPE 2/MONITOR |
| S639 | 6 |
| S640 | HITS |
| S641 | 3CH LOGIC |
| S642 | CD |
| S643 | 7 |
| S644 | SIMULATED SURR.<br>(VSX-D701S ONLY) |
| S645 | TREBLE UP |
| S646 | TUNER |
| S647 | 8 |
| S648 | JAZZ (VSX-D701S ONLY) |
| S649 | BALANCE RCH |
| S650 | PHONO |
| S651 | 9 |
| S652 | CHURCH (VSX-D601)<br>SIMULATED SURR. (VSX-D701S) |
| S653 | RETURN |
| S654 | ACOUSTIC SELECT |
| S655 | 0 |
| S656 | DANCE |
| S657 | MUTING |
| S658 | ACOUSTIC MEMORY |
| S659 | RESET |
| S660 | HALL |

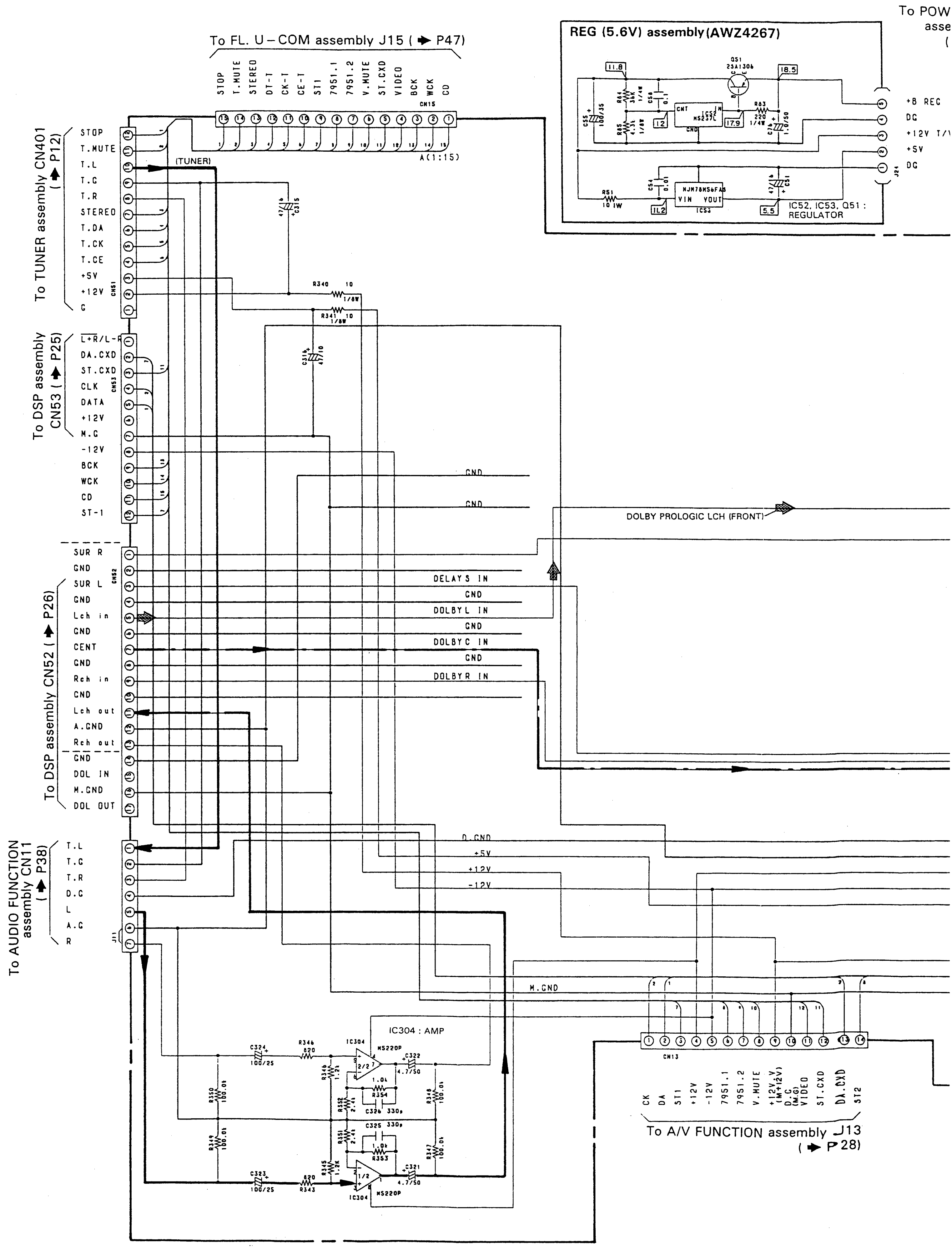
SP SW assembly

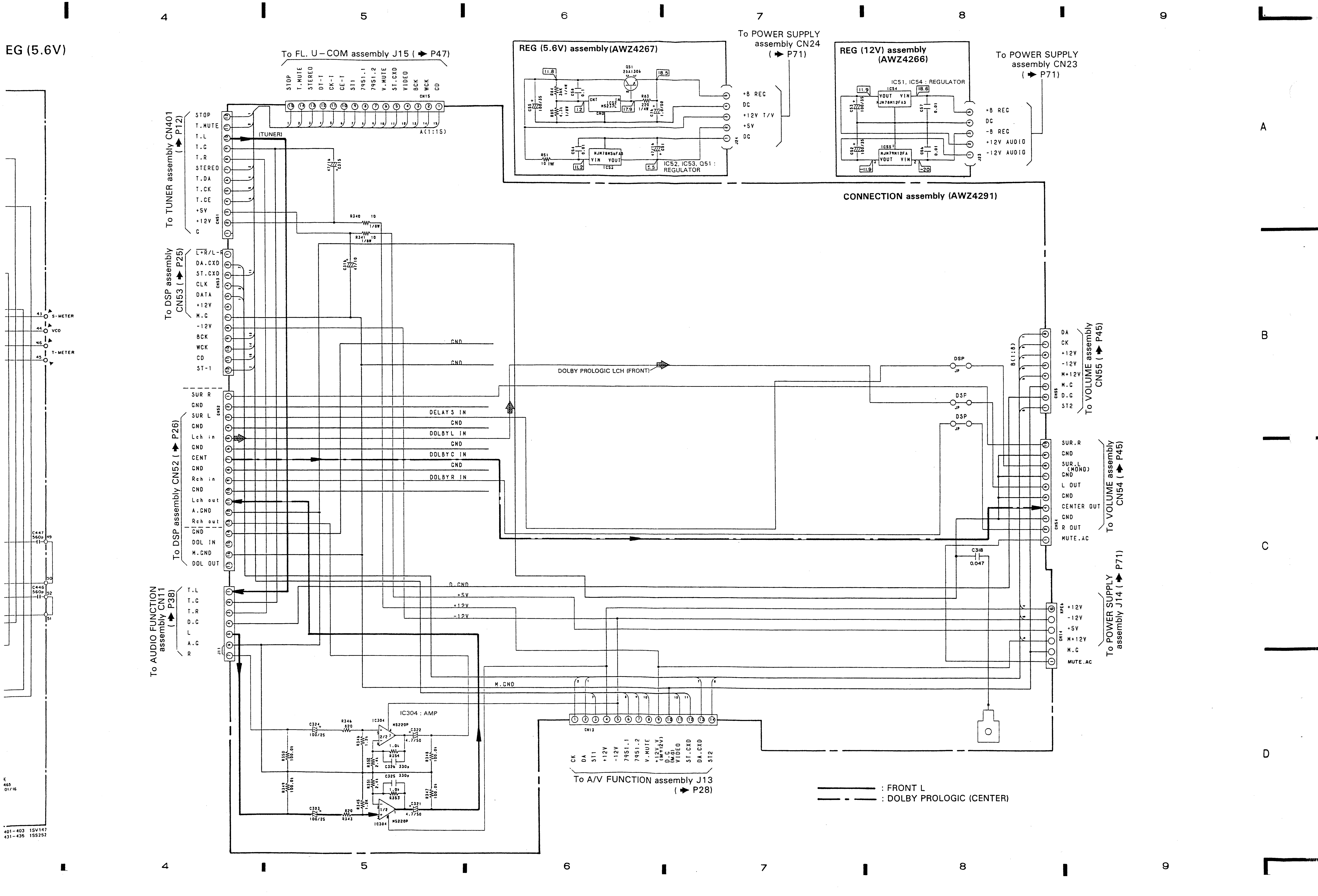
| | |
|---|---|
| S251 | SP-A ON/OFF<br>SP-B ON/OFF |

## 5.2 TUNER ASSEMBLY, CONNECTION ASSEMBLY, REG (12V) ASSEMBLY AND REG (5.6V) ASSEMBLY

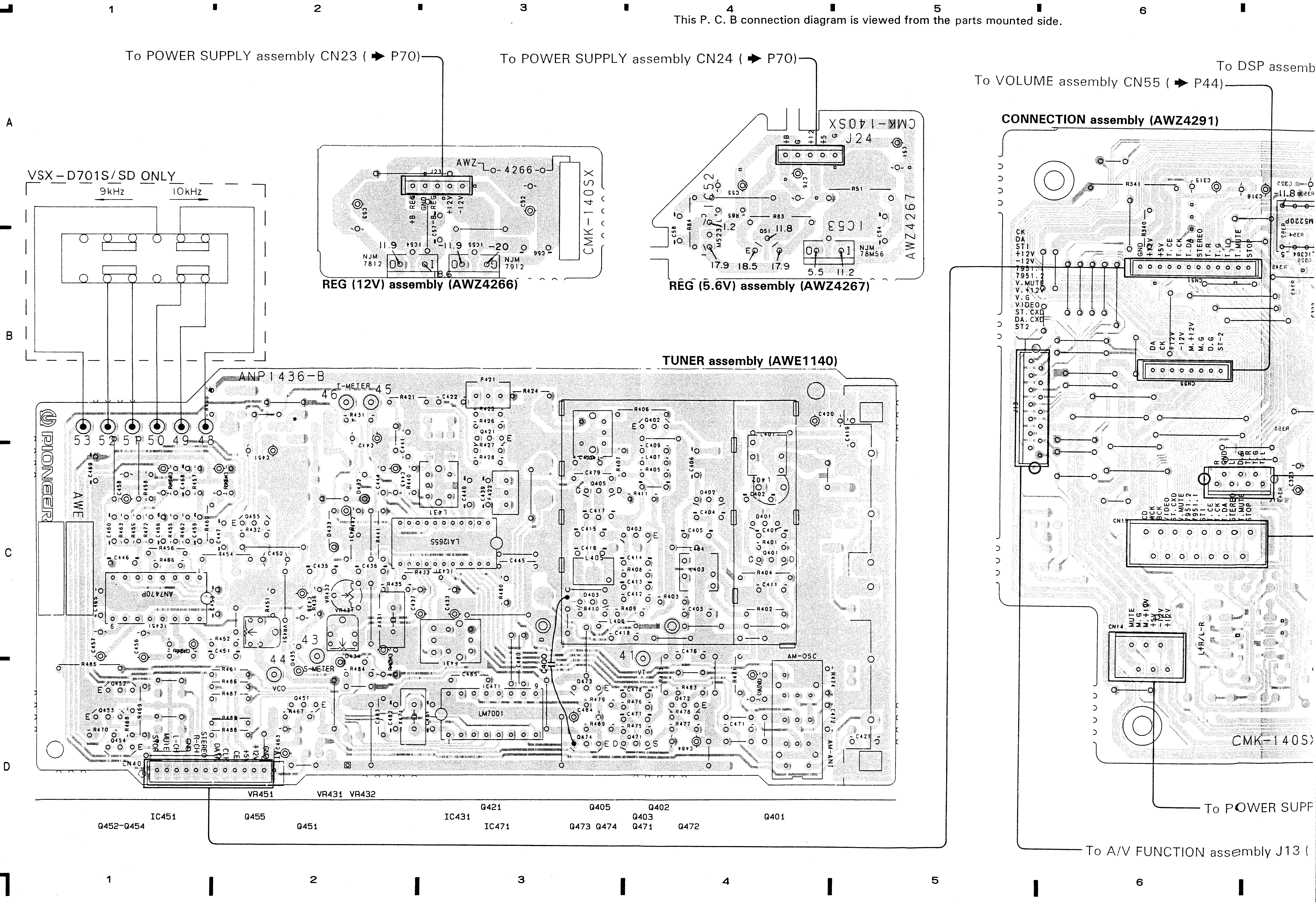

TUNER assembly (AWE1140)
ANK1009
FM 300Ω
75Ω
AM LOOP
AM RF TUNING BLOCK AXX1011
F421 ATF-107 (MA)
F422 ATF-119 (MS)
F431 ATF-208
VR451 : VCO ADJ.
VR431 : TUNED INDICATION ADJ.
IC431 : AM/FM IF DET
IC451 : MPX
IC471 : PLL
IC304 : AMP
S-METER
VCO
T-METER
VT
AM CH. STEP
CH. STEP
(53-48 SHORT (AM : 9kHz, FM : 50kHz)
53-48 OPEN AM : 10kHz FM : 100kHz
CN401
STOP
MUTE
L ch OUT
GND
R ch OUT
STEREO
DATA
CK
CE
+5V
+12V
GND
To CONNECTION assembly CN51 (➡ P13)

| | |
|---|---|
| IC431 | LA1265S |
| IC451 | AN7470P |
| IC471 | LM7001 |
| Q401 | 2SK241 |
| Q402 | 2SC2786 |
| Q403 | 2SC2668 |
| Q405 | 2SK161 |
| Q421 | 2SC2668 |
| Q451 | 2SC2603 |
| Q452, 453 | 2SC1740S |
| Q454 | 2SA933S |
| Q471 | 2SK246 |
| Q472 | 2SC1740SLN |
| Q473, 474 | RN2201 |
| D401−403 | 1SV147 |
| D431−435 | 1SS252 |

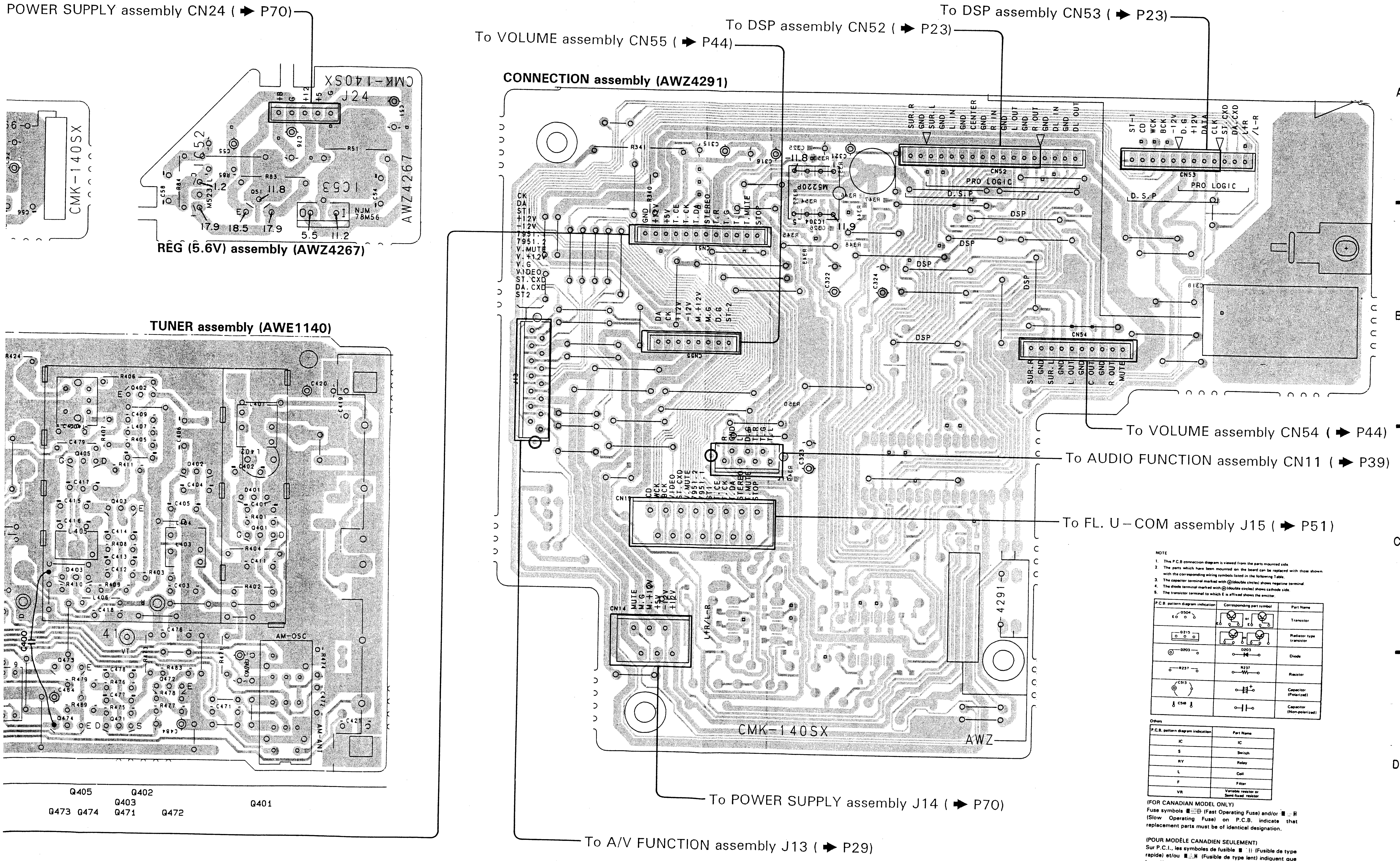

To FL. U-COM assembly J15 (➡ P47)
STOP
T.MUTE
STEREO
DT-T
CK-T
CE-T
ST1
7951.1
7951.2
V.MUTE
ST.CXD
VIDEO
BCK
WCK
CD
CN15
REG (5.6V) assembly (AWZ4267)
To POW asse
+B REC
DC
+12V T/V
+5V
DC
IC52, IC53, Q51 : REGULATOR
To TUNER assembly CN401 (➡ P12)
(TUNER)
T.L
T.C
T.R
T.DA
T.CK
T.CE
+5V
+12V
To DSP assembly CN53 (➡ P25)
L+R/L-R
DA.CXD
ST.CXD
CLK
DATA
+12V
N.C
-12V
BCK
WCK
CD
ST-1
To DSP assembly CN52 (➡ P26)
SUR R
GND
SUR L
Lch in
CENT
Rch in
Lch out
A.GND
Rch out
DOL IN
M.GND
DOL OUT
DOLBY PROLOGIC LCH (FRONT)
DELAY S IN
DOLBY L IN
DOLBY C IN
DOLBY R IN
To AUDIO FUNCTION assembly CN11 (➡ P38)
D.C
L
A.C
R
D.GND
+5V
+12V
-12V
M.GND
To A/V FUNCTION assembly J13 (➡ P28)


EG (5.6V)
4
5
6
7
8
9
A
B
C
D
To FL. U-COM assembly J15 (➜ P47)
STOP
T.MUTE
STEREO
DT-T
CK-T
CE-T
ST1
7951.1
7951.2
V.MUTE
ST.CXD
VIDEO
BCK
WCK
CD
CN15
A(1:15)
REG (5.6V) assembly(AWZ4267)
To POWER SUPPLY assembly CN24 (➜ P71)
Q51 2SA1306
IC52 NJM2391 (NS2572)
IC53 NJM78M56FA
IC52, IC53, Q51 : REGULATOR
+B REC
DC
+12V T/V
+5V
DC
J24
REG (12V) assembly (AWZ4266)
IC51, IC54 : REGULATOR
IC54 NJM78M12FA
IC55 NJM79M12FA
To POWER SUPPLY assembly CN23 (➜ P71)
+B REC
DC
-B REC
+12V AUDIO
-12V AUDIO
J23
CONNECTION assembly (AWZ4291)
To TUNER assembly CN401 (➜ P12)
STOP
T.MUTE
T.L
T.C
T.R
STEREO
T.DA
T.CK
T.CE
+5V
+12V
G
CN51
(TUNER)
R340 10 1/8W
R341 10 1/8W
C315
C316
To DSP assembly CN53 (➜ P25)
L+R/L-R
DA.CXD
ST.CXD
CLK
DATA
+12V
M.C
-12V
BCK
WCK
CD
ST-1
CN53
GND
GND
DOLBY PROLOGIC LCH (FRONT)
DSP JP
To DSP assembly CN52 (➜ P26)
SUR R
GND
SUR L
GND
Lch in
GND
CENT
GND
Rch in
GND
Lch out
A.GND
Rch out
GND
DOL IN
M.GND
DOL OUT
CN52
DELAYS IN
GND
DOLBYL IN
GND
DOLBYC IN
GND
DOLBYR IN
To VOLUME assembly CN55 (➜ P45)
DA
CK
+12V
-12V
M+12V
M.C
D.C
ST2
CN55
B(1:8)
To VOLUME assembly CN54 (➜ P45)
SUR.R
GND
SUR.L (MONO)
GND
L OUT
GND
CENTER OUT
GND
R OUT
MUTE.AC
CN54
C318 0.047
To AUDIO FUNCTION assembly CN11 (➜ P38)
T.L
T.C
T.R
D.C
L
A.C
R
J11
D.GND
+5V
+12V
-12V
M.GND
To POWER SUPPLY assembly J14 (➜ P71)
+12V
-12V
+5V
M+12V
M.C
MUTE.AC
CN14
IC304 : AMP
IC304 NS220P
C324 100/25
R346 820
C322 4.7/50
R354 1.0k
C326 330p
R350 100.01
R348 100.01
R352
C325 330p
R353 1.0k
R349 100.01
R347 100.01
C323 100/25
R343 820
R345
R351
C321 4.7/50
CN13
CK
DA
ST1
+12V
-12V
7951.2
V.MUTE
+12V.V (M+12V)
D.G (M.G)
VIDEO
ST.CXD
DA.CXD
ST2
To A/V FUNCTION assembly J13 (➜ P28)
: FRONT L
: DOLBY PROLOGIC (CENTER)
S-METER
VCO
T-METER
C447 560p
C446 560p
401-403 1SV147
431-435 1SS252

This P. C. B connection diagram is viewed from the parts mounted side.


1
2
3
4
5
6
A
B
C
D
To POWER SUPPLY assembly CN23 (➔ P70)
To POWER SUPPLY assembly CN24 (➔ P70)
To DSP assemb
To VOLUME assembly CN55 (➔ P44)
CONNECTION assembly (AWZ4291)
VSX-D701S/SD ONLY
9kHz
10kHz
AWZ-4266
CMK-140SX
J23
+B
REG
GND
B_REG
+12V
-12V
IC54
IC55
11.9
11.9
-20
NJM 7812
NJM 7912
18.6
REG (12V) assembly (AWZ4266)
CMK-140SX
J24
+B
G
+12
+5
G
C52
IC53
R51
R83
R84
R85
11.8
1.2
17.9
18.5
17.9
5.5
11.2
NJM 78M56
AWZ4267
REG (5.6V) assembly (AWZ4267)
TUNER assembly (AWE1140)
ANP1436-B
I-METER
46
45
53
52
51
50
49
48
44
43
41
S-METER
VCO
VT
AM-OSC
AM-ANT
PIONEER
AWE
AN7410P
LA1265S
LM7001
IC451
IC431
IC471
F421
CN40
MUTE
STOP
STEREO
R-CH
L-CH
GND
DA
CL
CE
+5V
+12V
GND
CK
DA
ST1
+12V
-12V
7951.1
7951.2
V.MUTE
V.+12V
V.G
VIDEO
ST.CXD
DA.CXD
ST2
J13
GND
+12V
+5V
T.CE
T.CK
T.DA
STEREO
T.R
T.G
T.L
T.MUTE
STOP
CN51
DA
CK
+12V
-12V
M.+12V
M.G
D.G
ST-2
CN55
CN15
CN14
MUTE
M.G
M.+10V
+5V
-12V
+12V
L+R/L-R
IC304
M5220P
R341
R340
R350
CMK-140SX
VR451
VR431
VR432
IC451
Q452-Q454
Q455
Q451
IC431
Q421
IC471
Q405
Q473
Q474
Q402
Q403
Q471
Q472
Q401
To POWER SUPP
To A/V FUNCTION assembly J13 (
1
2
3
4
5
6

This P. C. B connection diagram is viewed from the parts mounted side.


4
5
6
7
8
9
A
B
C
D
POWER SUPPLY assembly CN24 ( ➡ P70)
To VOLUME assembly CN55 ( ➡ P44)
To DSP assembly CN52 ( ➡ P23)
To DSP assembly CN53 ( ➡ P23)
CONNECTION assembly (AWZ4291)
REG (5.6V) assembly (AWZ4267)
CMK-140SX
AWZ4267
J24
+B
G
+12
+5
G
IC52
M5237L
IC53
NJM 78M56
R51
R83
R84
C58
C54
17.9
18.5
17.9
11.2
11.8
5.5
11.2
TUNER assembly (AWE1140)
AM-OSC
AM-ANT
Q405
Q402
Q403
Q401
Q473
Q474
Q471
Q472
L401
L402
L403
L404
L405
L406
L407
D401
D402
D403
R401
R402
R403
R404
R405
R406
R407
R408
R409
R410
R411
R424
R476
R477
R478
R479
R483
R489
C400
C401
C402
C403
C404
C405
C406
C409
C411
C412
C413
C414
C415
C416
C417
C418
C419
C420
C421
C464
C471
C472
C476
C478
C479
C484
41
VT
CN52
CN53
CN54
CN55
CN11
CN13
CN14
J13
IC304
M5220P
PRO LOGIC
D. S. P
DSP
SUR. R
GND
SUR. L
GND
L IN
GND
CENTER
GND
R IN
GND
L OUT
GND
R OUT
GND
DL IN
GND
DL OUT
ST-1
CD
WCK
BCK
-12V
D. G
+12V
DATA
CLK
ST. CXD
DA. CXD
L+R
/L-R
GND
+12V
+5V
T. CE
T. CK
T. DA
STEREO
T. R
T. G
T. L
T. MUTE
STOP
CK
DA
ST1
+12V
-12V
7951. 1
7951. 2
V. MUTE
V. +12V
V. G
VIDEO
ST. CXD
DA. CXD
ST2
DA
CK
+12V
-12V
M. +12V
M. G
D. G
ST-2
SUR. R
GND
SUR. L
GND
L OUT
C OUT
GND
R OUT
MUTE
R
GND
L
D. G
T. R
T. G
T. L
CD
WCK
BCK
VIDEO
ST. CXD
V. MUTE
7951. 2
7951. 1
ST1
T. CE
T. CK
T. DA
STEREO
T. MUTE
STOP
MUTE
M. G
M. +10V
+5V
-12V
+12V
L+R/L-R
4291
CMK-140SX
AWZ
R340
R341
C315
C316
C321
C322
C323
C324
C332
11.8
11.9
5
To VOLUME assembly CN54 ( ➡ P44)
To AUDIO FUNCTION assembly CN11 ( ➡ P39)
To FL. U-COM assembly J15 ( ➡ P51)
To POWER SUPPLY assembly J14 ( ➡ P70)
To A/V FUNCTION assembly J13 ( ➡ P29)

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.
3. The capector terminal marked with ◎(double circles) shows negative terminal.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

| P.C.B. pattern diagram indication | Corresponding part symbol | Part Name |
|---|---|---|
| Q504 E | E or E | Transistor |
| Q215 | or | Radiator type transistor |
| ◎ D203 | D203 | Diode |
| R237 | R237 | Resistor |
| ◎ C513 | + | Capacitor (Polarized) |
| C518 | | Capacitor (Non-polarized) |

Others

| P.C.B. pattern diagram indication | Part Name |
|---|---|
| IC | IC |
| S | Switch |
| RY | Relay |
| L | Coil |
| F | Filter |
| VR | Variable resistor or Semi-fixed resistor |

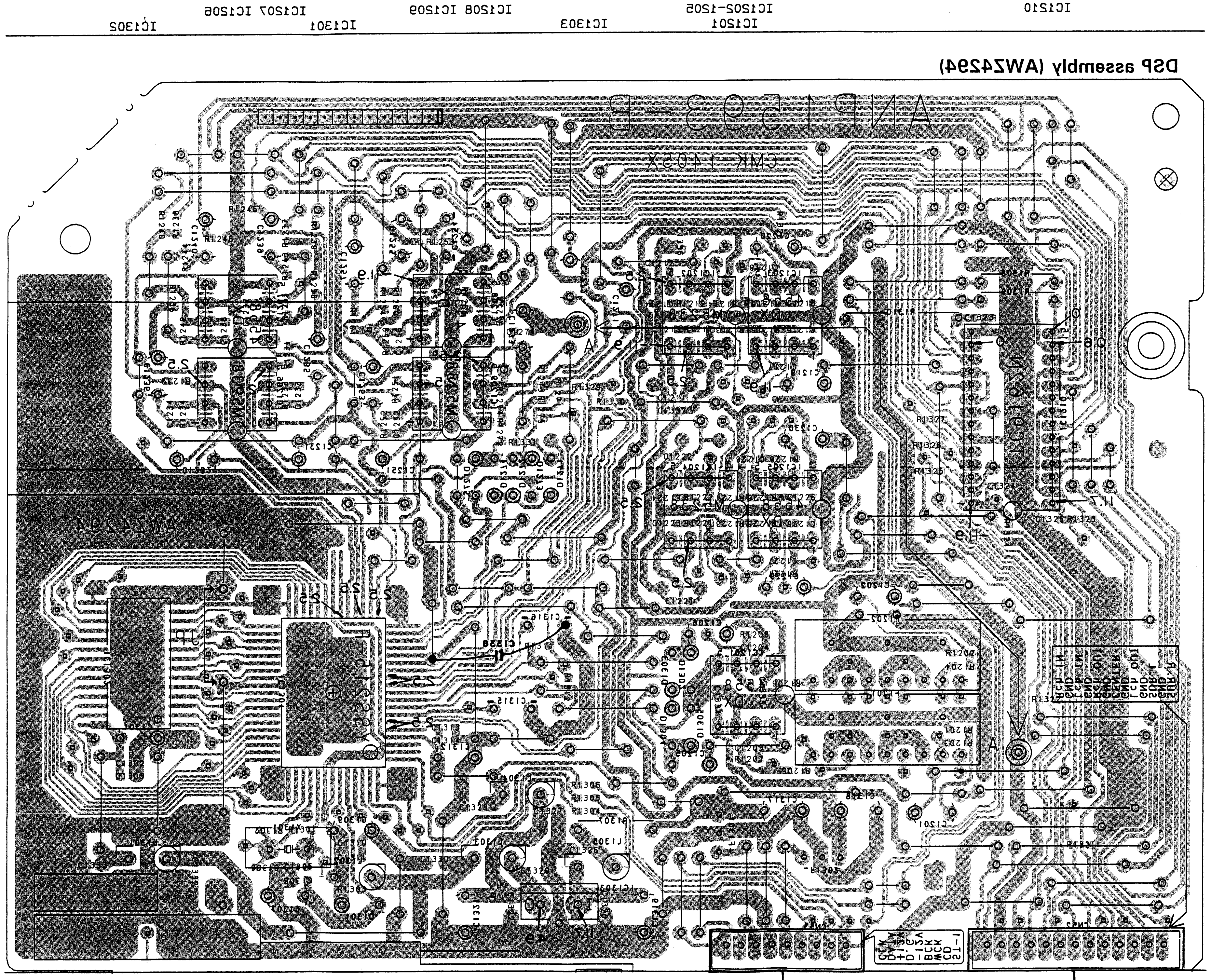
(FOR CANADIAN MODEL ONLY)
Fuse symbols (Fast Operating Fuse) and/or (Slow Operating Fuse) on P.C.B. indicate that replacement parts must be of identical designation.

(POUR MODÈLE CANADIEN SEULEMENT)
Sur P.C.I., les symboles de fusible (Fusible de type rapide) et/ou (Fusible de type lent) indiquent que les pièces de remplacement doivent avoir la même désignation.

## 5.3 DSP ASSEMBLY

This P. C. B. connection diagram is viewed from the foil side.

**DSP assembly (AWZ4294)**

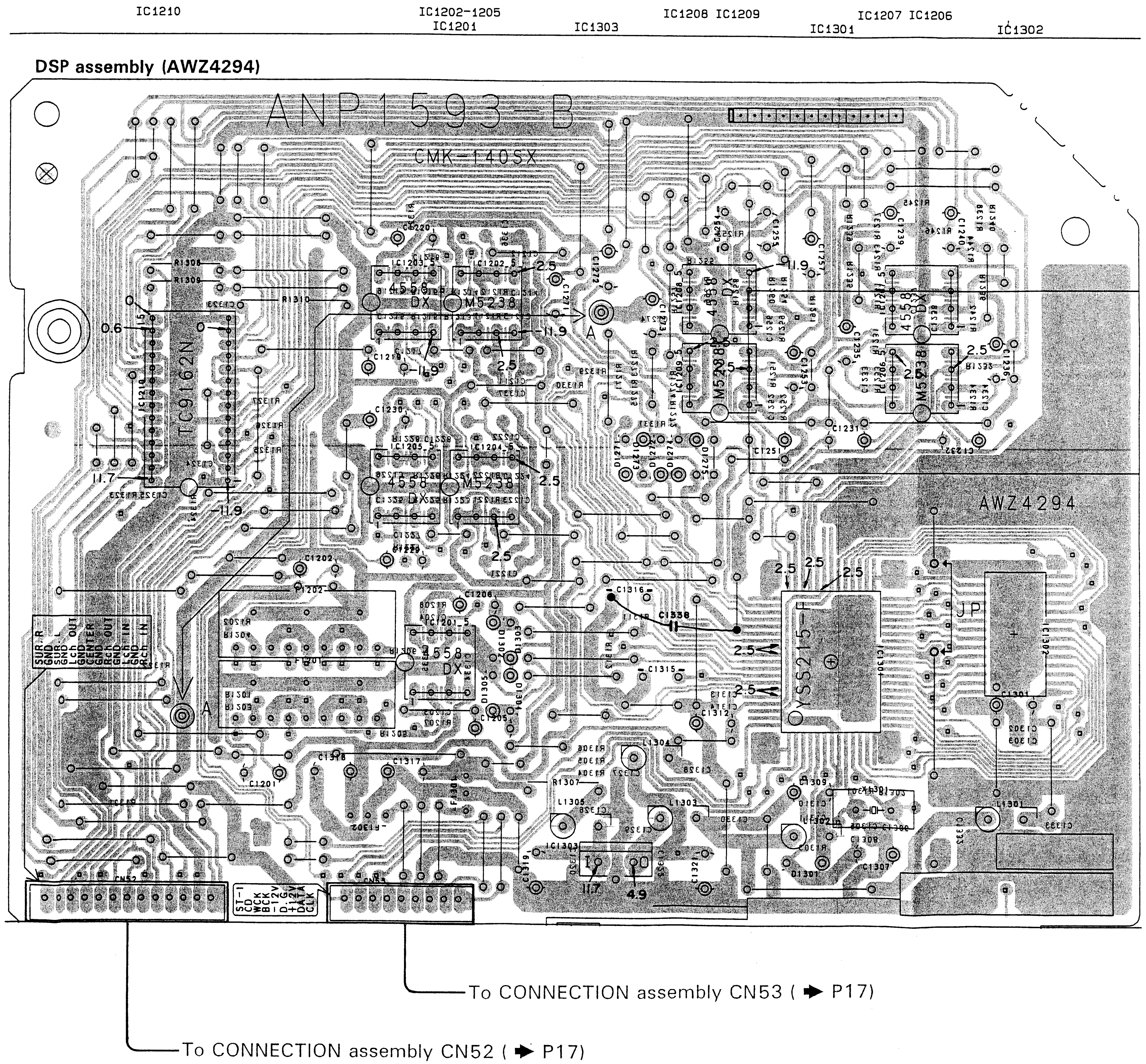

A
B
C
D
IC1302
IC1207 IC1206
IC1301
IC1208 IC1209
IC1303
IC1202-1205
IC1201
IC1210
ANP1593-B
GMK-140SX
AWZ4294
CN53
CN52

To CONNECTION assembly CN53 (➡ P17)

To CONNECTION assembly CN52 (➡ P17)

This P. C. B connection diagram is viewed from the parts mounted side.

## DSP assembly (AWZ4294)

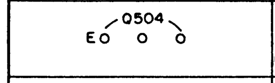
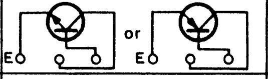
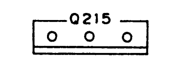
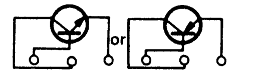
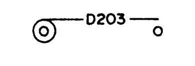
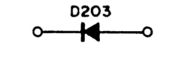
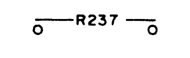
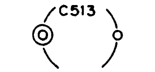
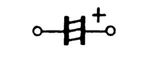
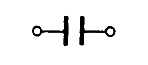

IC1210
IC1202–1205
IC1201
IC1303
IC1208 IC1209
IC1301
IC1207 IC1206
IC1302
ANP1593 B
CMK-140SX
AWZ4294
TC9162N
4558 DX
M5238
YSS215-F
JP
A
11.9
2.5
0.6
11.7
-11.9
4.9
CN52
CN53
SUR-R
GND
SUR-L
Lch OUT
GND
CENTER
GND
Rch OUT
GND
Lch IN
GND
Rch IN
ST-I
CD
WCK
BCK
-12V
D.GND
DATA
CLK

To CONNECTION assembly CN53 ( ➧ P17)

To CONNECTION assembly CN52 ( ➧ P17)

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.
3. The capactor terminal marked with ◎ (double circles) shows negatine terminal.
4. The diode terminal marked with ◎ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

| P.C.B. pattern diagram indication | Corresponding part symbol | Part Name |
|---|---|---|
|  Q504 E |  E or E | Transistor |
|  Q215 |  or | Radiator type transistor |
|  D203 |  D203 | Diode |
|  R237 | R237 | Resistor |
|  C513 |  + | Capacitor (Polarized) |
| C518 |  | Capacitor (Non-polarized) |

Others

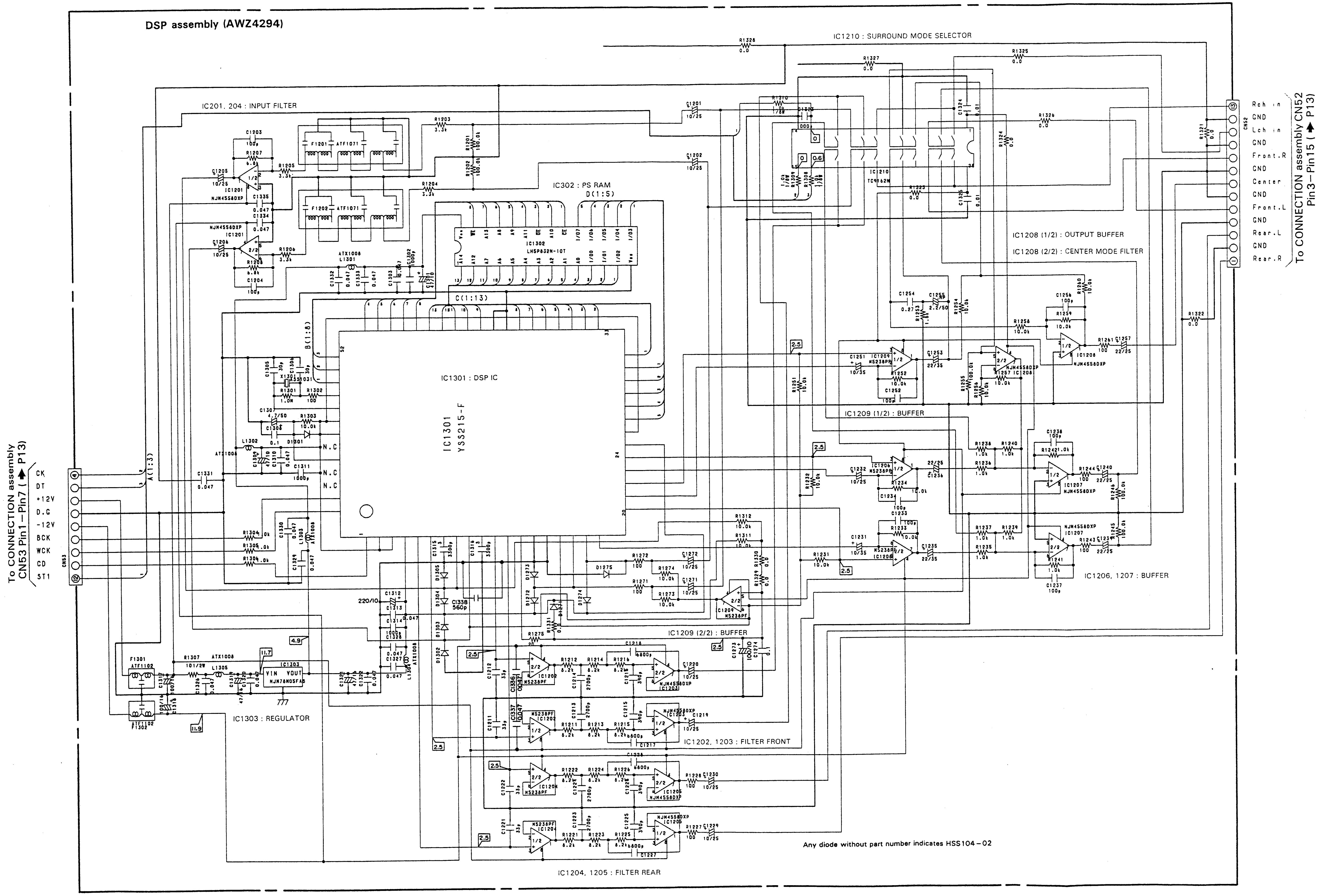
| P.C.B. pattern diagram indication | Part Name |
|---|---|
| IC | IC |
| S | Switch |
| RY | Relay |
| L | Coil |
| F | Filter |
| VR | Variable resistor or Semi-fixed resistor |

(FOR CANADIAN MODEL ONLY)

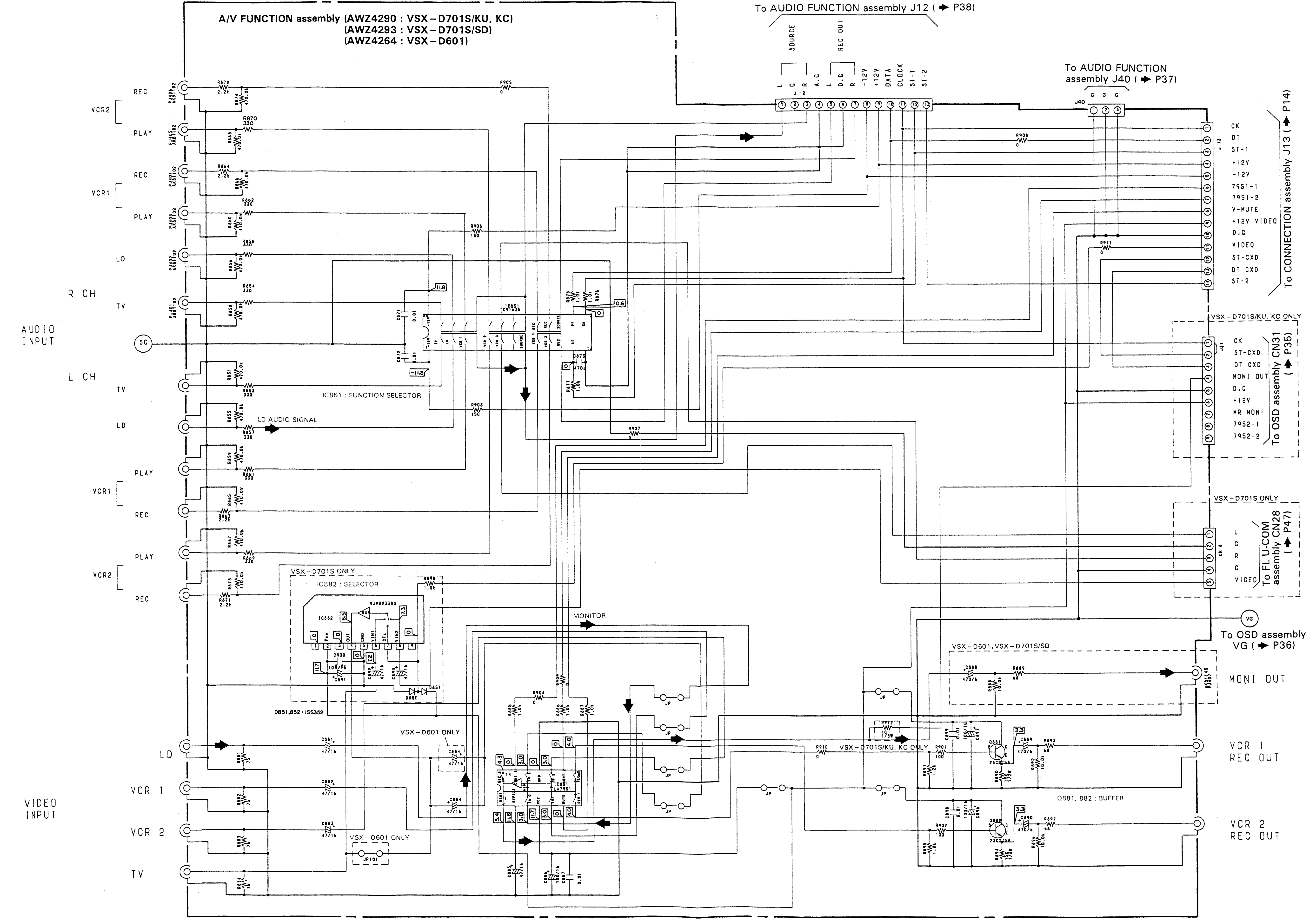
Fuse symbols ▭ (Fast Operating Fuse) and/or ▭ (Slow Operating Fuse) on P.C.B. indicate that replacement parts must be of identical designation.

(POUR MODÈLE CANADIEN SEULEMENT)

Sur P.C.I., les symboles de fusible ▭ (Fusible de type rapide) et/ou ▭ (Fusible de type lent) indiquent que les pièces de remplacement doivent avoir la même désignation.

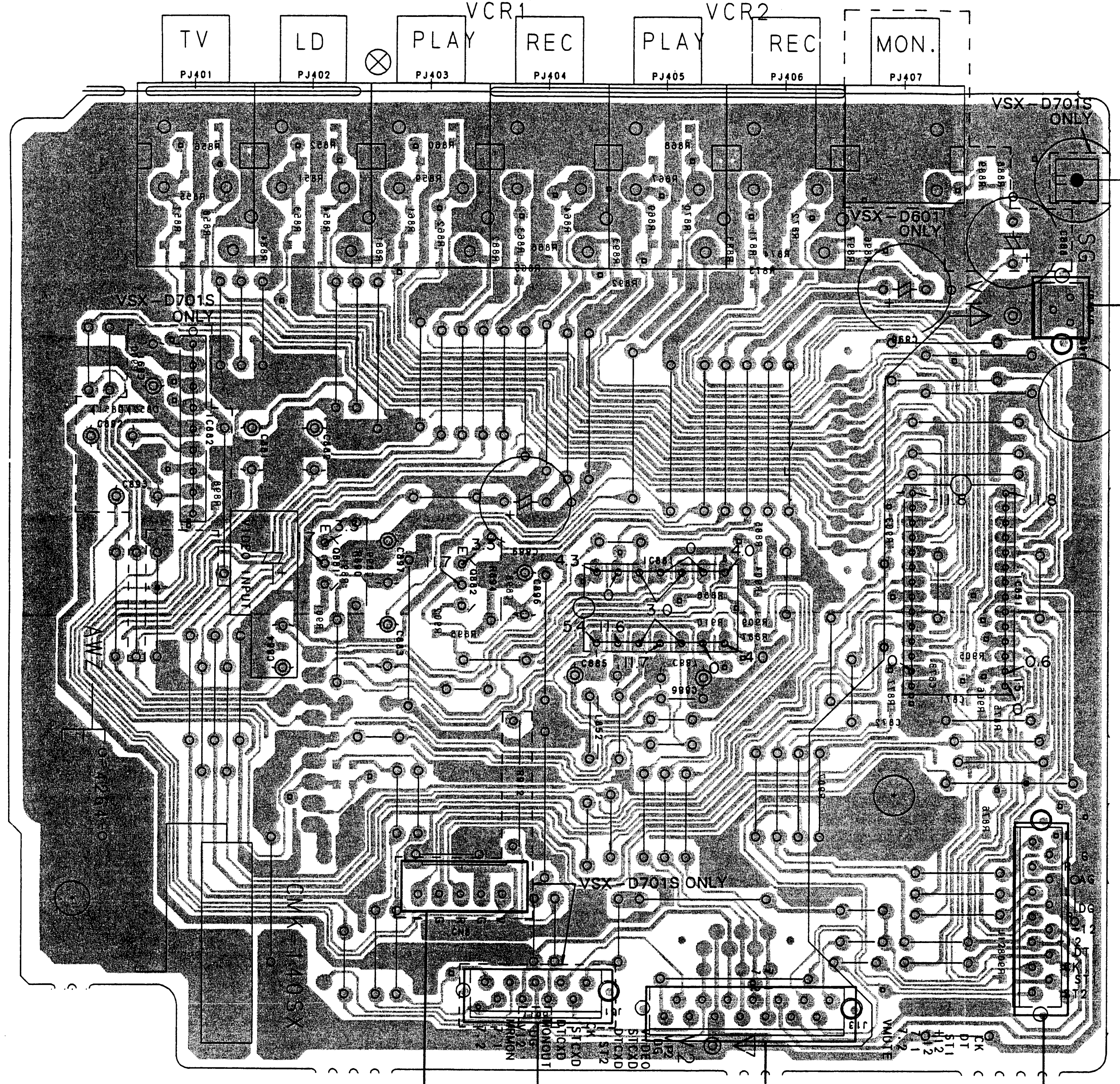

DSP assembly (AWZ4294)
IC1210 : SURROUND MODE SELECTOR
IC201, 204 : INPUT FILTER
IC302 : PS RAM
IC1302
LH5P832N-10T
IC1301 : DSP IC
IC1301
YSS215-F
IC1208 (1/2) : OUTPUT BUFFER
IC1208 (2/2) : CENTER MODE FILTER
IC1209 (1/2) : BUFFER
IC1206, 1207 : BUFFER
IC1209 (2/2) : BUFFER
IC1303 : REGULATOR
IC1202, 1203 : FILTER FRONT
IC1204, 1205 : FILTER REAR
Any diode without part number indicates HSS104-02
To CONNECTION assembly CN53 Pin1-Pin7 (➡ P13)
CK
DT
+12V
D.G
-12V
BCK
WCK
CD
ST1
CN53
To CONNECTION assembly CN52 Pin3-Pin15 (➡ P13)
Rch in
GND
Lch in
GND
Front.R
GND
Center
GND
Front.L
GND
Rear.L
GND
Rear.R
CN52
NJM4558DXP
NJM78M05FA
M5238PF
TC9162N
ATX1008
ATF1071
ATF1102
F1201
F1202
F1301
F1302
L1301
L1302
L1305
X1301
D1301
D1302
D1303
D1304
D1305
D1272
D1273
D1274
D1275
A(1:3)
B(1:8)
C(1:13)
D(1:5)
N.C
2.5
4.9
11.7
11.9
0
0.6

## 5.4 A/V FUNCTION ASSEMBLY


A/V FUNCTION assembly (AWZ4290 : VSX-D701S/KU, KC)
(AWZ4293 : VSX-D701S/SD)
(AWZ4264 : VSX-D601)
To AUDIO FUNCTION assembly J12 ( ➔ P38)
SOURCE
REC OUT
L G R A.G L D.G R -12V +12V DATA CLOCK ST-1 ST-2
J12
To AUDIO FUNCTION assembly J40 ( ➔ P37)
G G G
J40
J13
CK
DT
ST-1
+12V
-12V
7951-1
7951-2
V-MUTE
+12V VIDEO
D.G
VIDEO
ST-CXD
DT CXD
ST-2
To CONNECTION assembly J13 ( ➔ P14)
VSX-D701S/KU, KC ONLY
J31
CK
ST-CXD
DT CXD
MONI OUT
D.G
+12V
MR MONI
7952-1
7952-2
To OSD assembly CN31 ( ➔ P35)
VSX-D701S ONLY
CN8
L
G
R
G
VIDEO
To FL U-COM assembly CN28 ( ➔ P47)
VG
To OSD assembly VG ( ➔ P36)
AUDIO INPUT
R CH
L CH
VCR2
VCR1
REC
PLAY
LD
TV
SG
IC851 : FUNCTION SELECTOR
IC851 CX1163M
LD AUDIO SIGNAL
VSX-D701S ONLY
IC882 : SELECTOR
IC882
NJM2233BS
D851,852 : 1SS352
MONITOR
VSX-D601 ONLY
VSX-D601 ONLY
JP101
VIDEO INPUT
LD
VCR 1
VCR 2
TV
IC881
LA7951
JP
VSX-D601, VSX-D701S/SD
MONI OUT
VSX-D701S/KU, KC ONLY
VCR 1 REC OUT
VCR 2 REC OUT
Q881, 882 : BUFFER
Q881
Q882
2SC945A
R905
R906 150
R903 150
R907
R908
R911
R872 2.2k
R874 470.0k
R870 330
R868 470.0k
R864 2.2k
R866 470.0k
R862 330
R860 470.0k
R858 330
R856 470.0k
R854 330
R852 470.0k
R851 470.0k
R853 330
R855 470.0k
R857 330
R859 470.0k
R861 330
R865 470.0k
R863 2.2k
R867 470.0k
R869 330
R873 470.0k
R871 2.2k
11.8
-11.8
0.6
C871 0.01
C872 0.01
C873 470μ
R875 1.0k
R876 1.0k
R877 1.0k
C881 47/16
C882 47/16
C883 47/16
C884 47/16
C885 47/16
C886 100/16
C887 0.01
C888 470/6
C891 100/6
C892 47/16
C893 47/16
C900 100/6
R904 0
R909 0
R910 0
R901 100
R902 100
R884 75
R881 75
R882 75
R883 75
R885 1.0k
R886 1.0k
R887 1.0k
R888 10.0k
R889 68
R893 68
R897 68
R898 1.0k
C889 470/6
C890 470/6
3.3
4.3
3.0
11.7
7.2
6.5
5.4
11.6
4.0

## A/V FUNCTION assembly (AWZ4290 : VSX－D701S/KU, KC)
## (AWZ4293 : VSX－D701S/SD)
## (AWZ4264 : VSX－D601)

This P. C. B connection diagram is viewed from the parts mounted side.



To OSD assembly SG ( ➡ P34)

To AUDIO FUNCTION assembly J40 ( ➡ P39)

To FL. U－COM assembly CN28 ( ➡ P51)

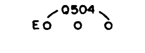
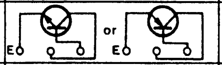
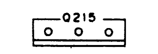
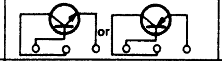
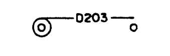
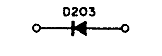
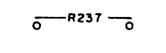
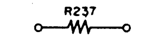
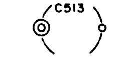
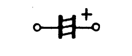
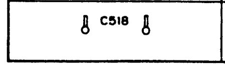
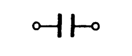
To OSD assembly CN31 ( ➡ P34)

To CONNECTION assembly J13 ( ➡ P16)

To AUDIO FUNCTION assembly J12 ( ➡ P39)

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.
3. The capactor terminal marked with ◎(double circles) shows negatine terminal.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

| P.C.B. pattern diagram indication | Corresponding part symbol | Part Name |
|---|---|---|
|  Q504 |  or | Transistor |
|  Q215 |  or | Radiator type transistor |
|  D203 |  D203 | Diode |
|  R237 |  R237 | Resistor |
|  C513 |  | Capacitor (Polarized) |
|  C518 |  | Capacitor (Non-polarized) |

Others

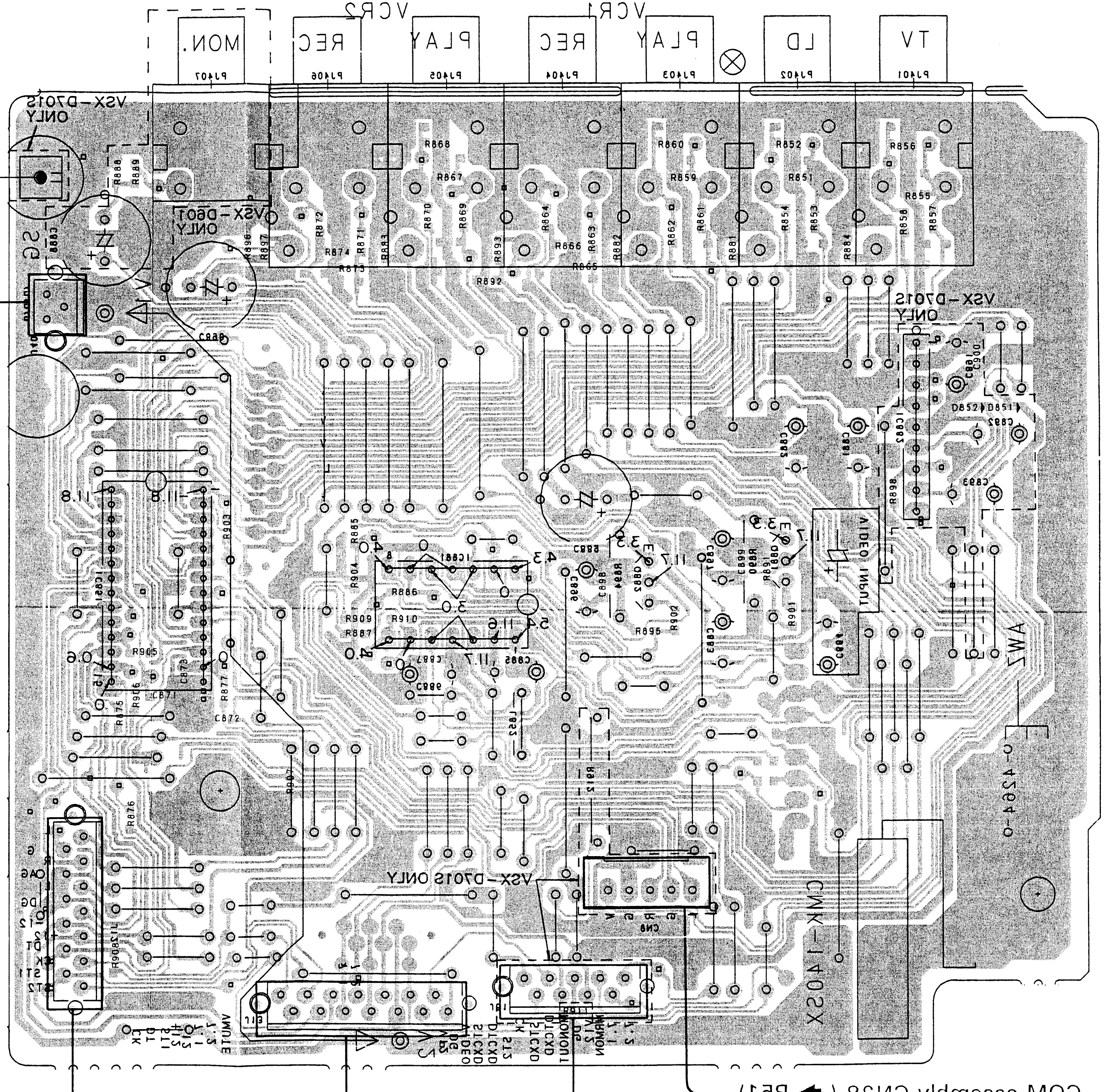
| P.C.B. pattern diagram indication | Part Name |
|---|---|
| IC | IC |
| S | Switch |
| RY | Relay |
| L | Coil |
| F | Filter |
| VR | Variable resistor or Semi-fixed resistor |

(FOR CANADIAN MODEL ONLY)
Fuse symbols ─▮══╪─ (Fast Operating Fuse) and/or ─▮══☒─ (Slow Operating Fuse) on P.C.B. indicate that replacement parts must be of identical designation.

(POUR MODÈLE CANADIEN SEULEMENT)
Sur P.C.I., les symboles de fusible ─▮══╪─ (Fusible de type rapide) et/ou ─▮══☒─ (Fusible de type lent) indiquent que les pièces de remplacement doivent avoir la même désignation.

## A/V FUNCTION assembly (AWZ4290 : VSX-D701S/KU, KC)
## (AWZ4293 : VSX-D701S/SD)
## (AWZ4264 : VSX-D601)

This P. C. B. connection diagram is viewed from the foil side.



TV
LD
PLAY
REC
VCR1
PLAY
REC
VCR2
MON.
P1401
P1402
P1403
P1404
P1405
P1406
P1407
VSX-D701S ONLY
VSX-D601 ONLY
VSX-D701S ONLY
VSX-D701S ONLY
IC881
IC882
VIDEO INPUT
CN8
AWZ
CNK-1405A
XSK-1405
SG

To OSD assembly SG (→ P34)

To AUDIO FUNCTION assembly J40 (→ P39)

To FL. U-COM assembly CN28 (→ P51)

To OSD assembly CN31 (→ P34)

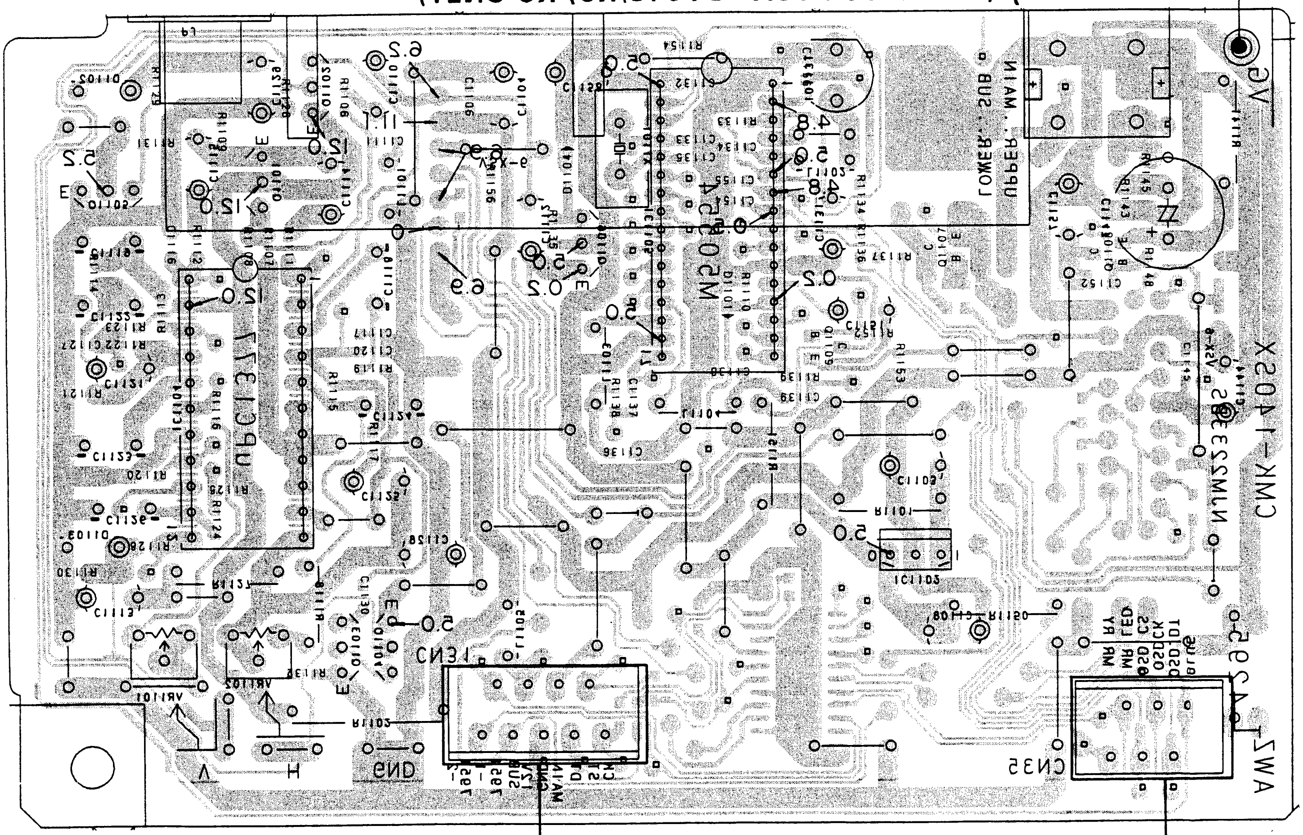
To CONNECTION assembly J13 (→ P16)

To AUDIO FUNCTION assembly J12 (→ P39)

## 5.5 OSD ASSEMBLY

To A/V FUNCTION assembly SG (➡ P30)

**OSD assembly (AWZ4295 : VSX-D701S/KU, KC ONLY)**



IC1101
UPC1271
CN31
CN35
VR1101
VR1102
GND
V
H
UPPER
LOWER
MAIN
SUB
CWK-1405
NJM2233S
AWZ

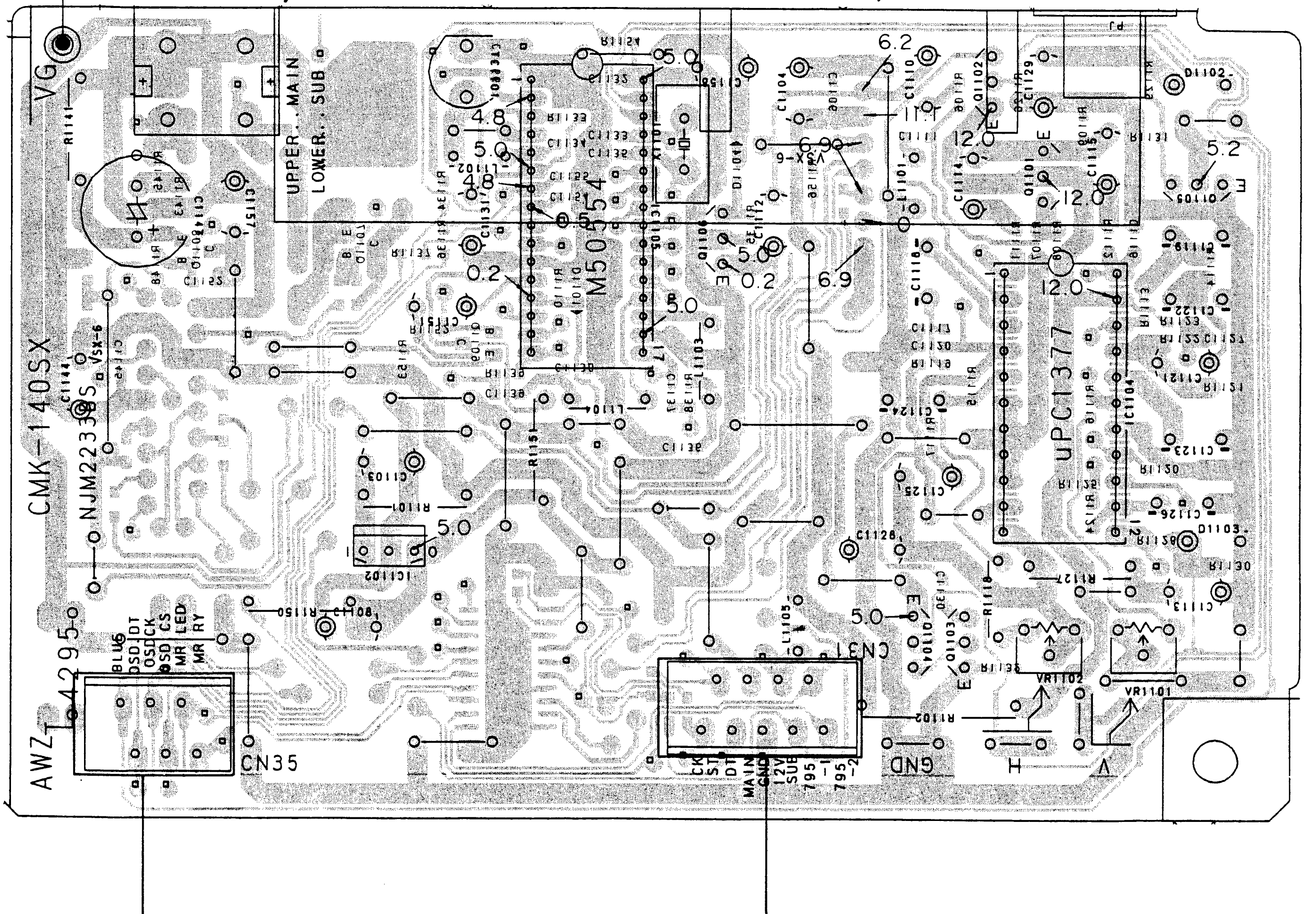
To A/V FUNCTION assembly
J131 (➡ P29)

To FL. U-COM assembly
J135 (➡ P51)

This P. C. B. connection diagram is viewed from the foil side.

To A/V FUNCTION assembly SG ( ➡ P30)

## OSD assembly (AWZ4295 : VSX-D701S/KU, KC ONLY)


VG
UPPER...MAIN
LOWER...SUB
CMK-140SX
NJM2233BS
M50554
UPC1377
AWZ4295
CN35
CN31
BLUG
OSD DT
OSDCK
OSD CS
MR LED
MR RY
CK
ST
DT
12V
MAIN
GND
SUB
795-1
795-2
GND
H
V
VR1102
VR1101
6.2
5.0
4.8
5.0
4.8
0.5
0.2
3.0
5.0
0.2
6.9
6.9
11.1
12.0
12.0
12.0
5.2
5.0
5.0

To FL. U-COM assembly J35 ( ➡ P51)

To A/V FUNCTION assembly J31 ( ➡ P29)

This P. C. B connection diagram is viewed from the parts mounted side.

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.
3. The capactor terminal marked with ◎(double circles) shows negatine terminal.
4. The diode terminal marked with ◎ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

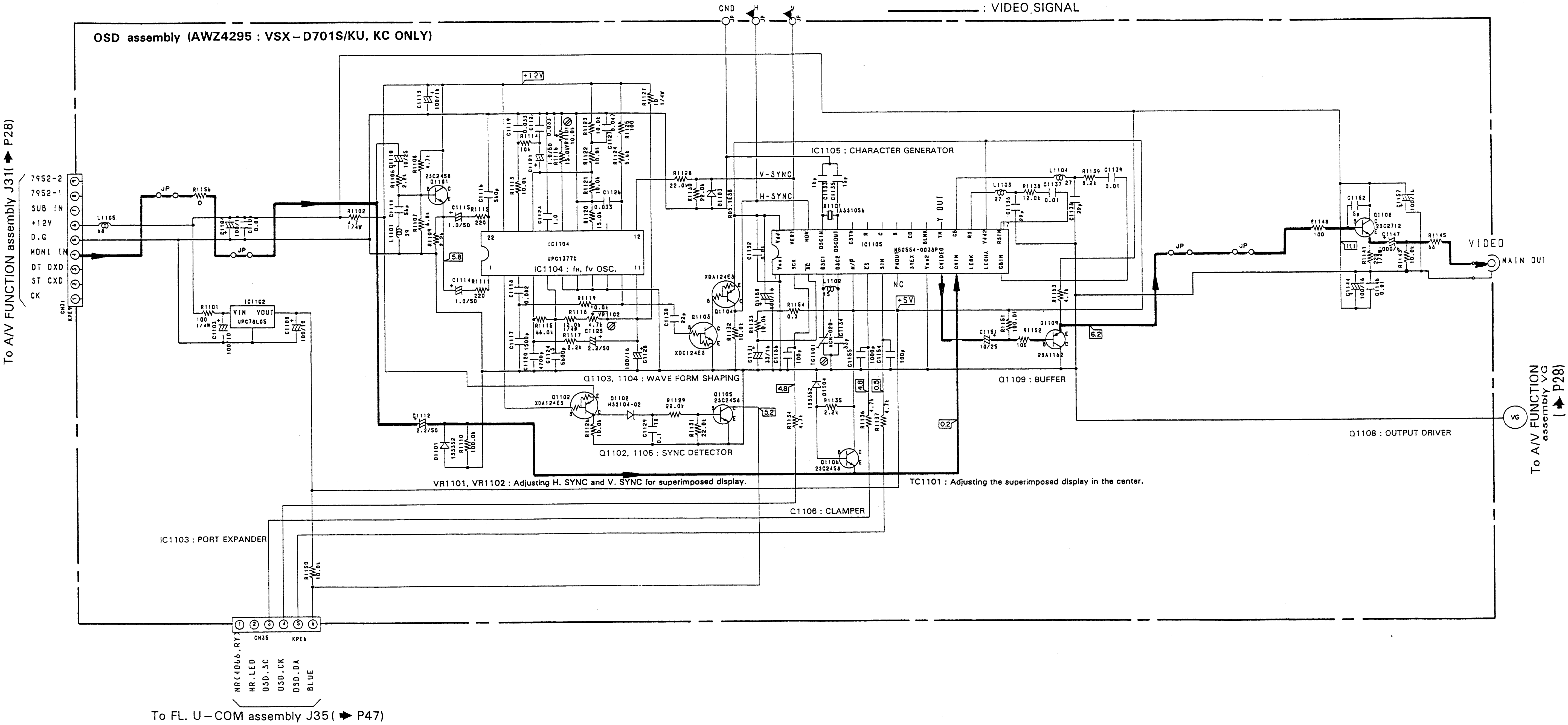
| P.C.B. pattern diagram indication | Corresponding part symbol | Part Name |
|---|---|---|
| E Q504 | E or E | Transistor |
| Q215 | or | Radiator type transistor |
| D203 | D203 | Diode |
| R237 | R237 | Resistor |
| C513 | + | Capacitor (Polarized) |
| C518 | | Capacitor (Non-polarized) |

Others

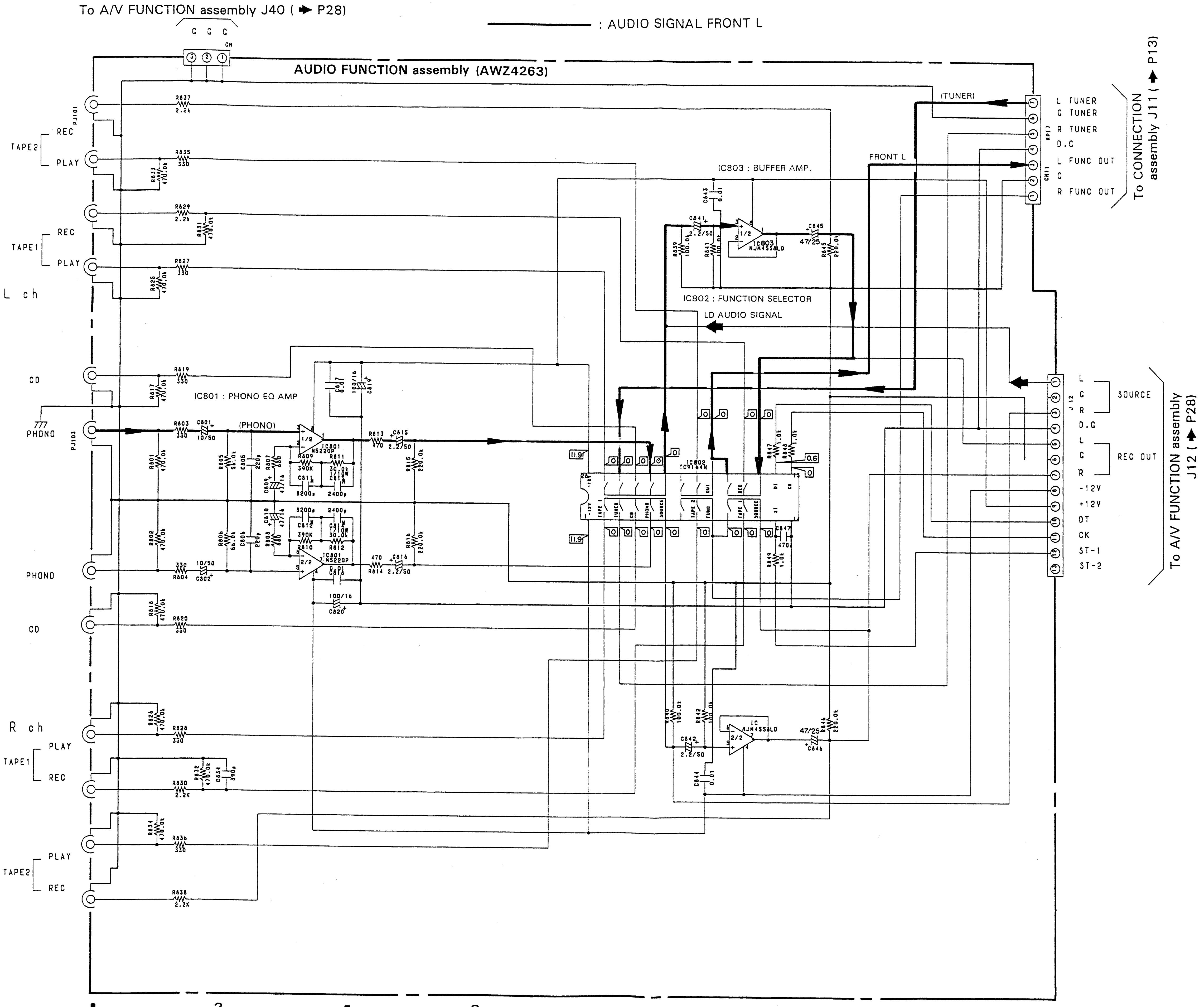
| P.C.B. pattern diagram indication | Part Name |
|---|---|
| IC | IC |
| S | Switch |
| RY | Relay |
| L | Coil |
| F | Filter |
| VR | Variable resistor or Semi-fixed resistor |

(FOR CANADIAN MODEL ONLY)
Fuse symbols ▬⊟ (Fast Operating Fuse) and/or ▬⊠ (Slow Operating Fuse) on P.C.B. indicate that replacement parts must be of identical designation.

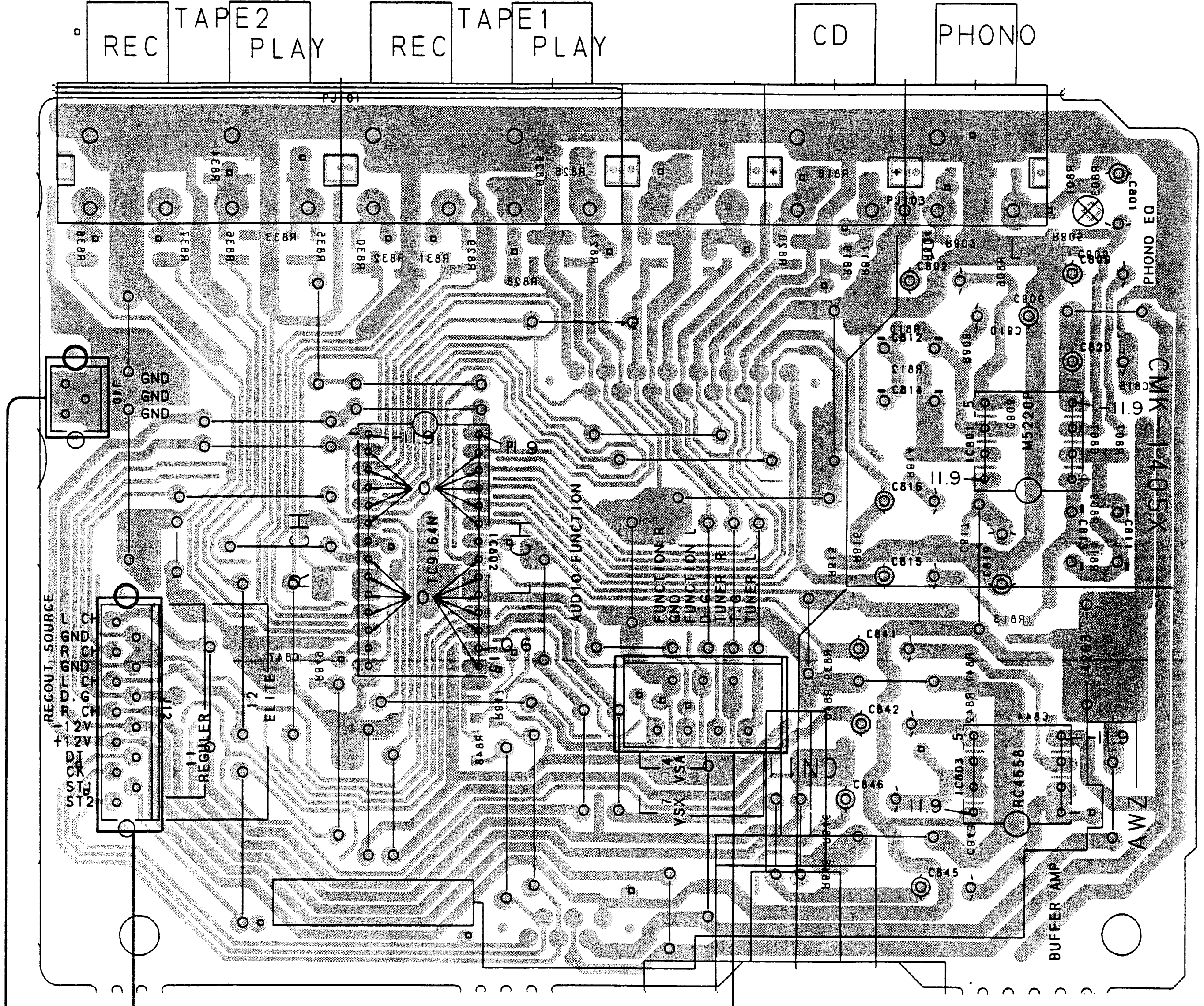
(POUR MODÈLE CANADIEN SEULEMENT)
Sur P.C.I., les symboles de fusible ▬⊟ (Fusible de type rapide) et/ou ▬⊠ (Fusible de type lent) indiquent que les pièces de remplacement doivent avoir la même désignation.


: VIDEO SIGNAL
OSD assembly (AWZ4295 : VSX-D701S/KU, KC ONLY)
GND
H
V
JP
To A/V FUNCTION assembly J31( ➡ P28)
7952-2
7952-1
SUB IN
+12V
D.G
MONI IN
DT DXD
ST CXD
CK
CN31
KPE9
L1105
R1156
0
C1104
100/10
C1105
0.01
R1102
4.7
1/4W
R1101
100
1/4W
IC1102
VIN VOUT
UPC78L05
C1103
100/10
C1108
100/10
IC1103 : PORT EXPANDER
R1150
10.0k
CN35
KPE6
MR(4066.RY)
MR.LED
OSD.SC
OSD.CK
OSD.DA
BLUE
To FL. U-COM assembly J35( ➡ P47)
+12V
C1113
100/16
R1127
10
1/4W
L1101
39
C1111
56p
R1106
2.2k
C1110
10/25
R1108
4.7k
R1107
2SC2458
Q1101
C1115
1.0/50
R1112
220
C1116
560p
R1109
5.6
C1114
1.0/50
R1111
220
IC1104
UPC1377C
IC1104 : fH, fv OSC.
22
12
1
11
C1119
C1112
R1114
R1113
C1121
C1123
R1116
VR1101
R1123
R1122
R1121
R1120
C1126
C1127
R1125
R1124
C1118
C1117
C1120
R1115
R1119
R1118
R1117
VR1102
C1125
2.2/50
C1128
100/16
Q1103, 1104 : WAVE FORM SHAPING
C1112
2.2/50
D1101
1SS352
R1110
100.0k
Q1102
XDA124E3
R1126
10.0k
D1102
HZS3104-02
C1129
R1129
22.0k
R1131
22.0k
Q1105
2SC2458
5.2
Q1102, 1105 : SYNC DETECTOR
VR1101, VR1102 : Adjusting H. SYNC and V. SYNC for superimposed display.
R1126
22.0k
R1130
22.0k
D1103
RD5.1ESB
C1130
22p
Q1103
XDC124E3
Q1104
XDA124E3
R1132
10.0k
R1133
10.0k
C1132
0.01
C1158
100/16
R1154
0.0
C1131
C1136
C1134
C1155
C1154
4.8
4.8
0.5
D1104
1SS352
R1135
2.2k
R1134
4.7k
R1136
4.7k
R1137
4.7k
Q1106
2SC2458
0.2
Q1106 : CLAMPER
IC1105 : CHARACTER GENERATOR
V-SYNC
H-SYNC
C1133
15p
C1135
15p
X1101
IAS31056
L1102
15
TC1101
Y OUT
IC1105
M50554-003SP
Vdd
VERT
HOR
OSCIN
OSCOUT
CSYN
R
G
B
CO
BLNK
YM
CB
RS
Vdd2
RSIN
Vss
SCK
AC
OSC1
OSC2
N/P
CS
SIN
PAOUT
SYEX
Vss2
CVIDEO
CVIN
LEBK
LECHA
CBIN
NC
+5V
17
L1103
27
R1138
12.0k
C1137
0.01
C1136
22p
L1104
27
R1139
8.2k
C1139
0.01
C1138
22p
R1153
4.7k
C1151
10/25
R1151
100.0k
R1152
100
Q1109
2SA1162
6.2
Q1109 : BUFFER
TC1101 : Adjusting the superimposed display in the center.
R1148
100
C1152
5p
Q1108
2SC2712
C1157
100/6
C1147
100/6
R1145
68
R1141
R1142
R1146
10.0k
C1144
100/6
C1145
0.01
11.1
VIDEO
MAIN OUT
VG
Q1108 : OUTPUT DRIVER
To A/V FUNCTION assembly VG ( ➡ P28)

## 5.6 AUDIO FUNCTION ASSEMBLY


To A/V FUNCTION assembly J40 ( ➜ P28)
: AUDIO SIGNAL FRONT L
AUDIO FUNCTION assembly (AWZ4263)
TAPE2 REC
TAPE2 PLAY
TAPE1 REC
TAPE1 PLAY
L ch
CD
PHONO
R ch
IC801 : PHONO EQ AMP
(PHONO)
IC801 NJM2220P
IC803 : BUFFER AMP.
IC803 NJM4558LD
IC802 : FUNCTION SELECTOR
IC802 TC9164N
LD AUDIO SIGNAL
FRONT L
(TUNER)
L TUNER
G TUNER
R TUNER
D.G
L FUNC OUT
G
R FUNC OUT
To CONNECTION assembly J11 ( ➜ P13)
SOURCE
REC OUT
-12V
+12V
DT
CK
ST-1
ST-2
To A/V FUNCTION assembly J12 ( ➜ P28)
R837 2.2k
R835 330
R833 470.0k
R829 2.2k
R831 470.0k
R827 330
R825 470.0k
R819 330
R817 470.0k
R803 330
C801 10/50
R801 470.0k
R805 56.0k
R807 680
R809 390K
R811 30.0k
C811 8200p
C813 2400p
C817 0.01
C819 100/16
R813 470
C815 2.2/50
R815 220.0k
R802 470.0k
R806 56.0k
R808 680
R810 390K
R812 30.0k
C812 8200p
C814 2400p
R804 330
C802 10/50
R814 470
C816 2.2/50
R816 220.0k
C820 100/16
R818 470.0k
R820 330
R826 470.0k
R828 330
R832 470.0k
C834 390p
R830 2.2K
R834 470.0k
R836 330
R838 2.2K
C843 0.01
C841 2.2/50
R839 100.0k
R841 100.0k
C845 47/25
R845 220.0k
R847 1.0k
R848 1.0k
C847 470p
R849 1.0k
R840 100.0k
R842 100.0k
C842 2.2/50
C844 0.01
C846 47/25
R846 220.0k
0.6
11.9
TAPE 1
TUNER
CD
PHONO
SOURCE
TAPE 2
FUNC
OUT
REC
DI
CK
ST

## AUDIO FUNCTION assembly (AWZ4263)


TAPE2
REC
PLAY
TAPE1
REC
PLAY
CD
PHONO
PJ101
PJ103
J40
GND
GND
GND
REGOUT
SOURCE
L CH
GND
R CH
GND
L CH
D.G
R CH
-12V
+12V
DI
CK
ST1
ST2
J12
ELITE
REGULER
L CH
R
IC802
TC9164N
AUDIO FUNCTION
FUNCTION R
GND
FUNCTION L
D.G
TUNER R
G
TUNER L
VSX
VSA
J11
LINC
11.9
11.9
11.9
11.9
11.9
M5220P
IC801
IC803
RC4558
PHONO EQ
BUFFER AMP
CMK-1405X
AWZ4263

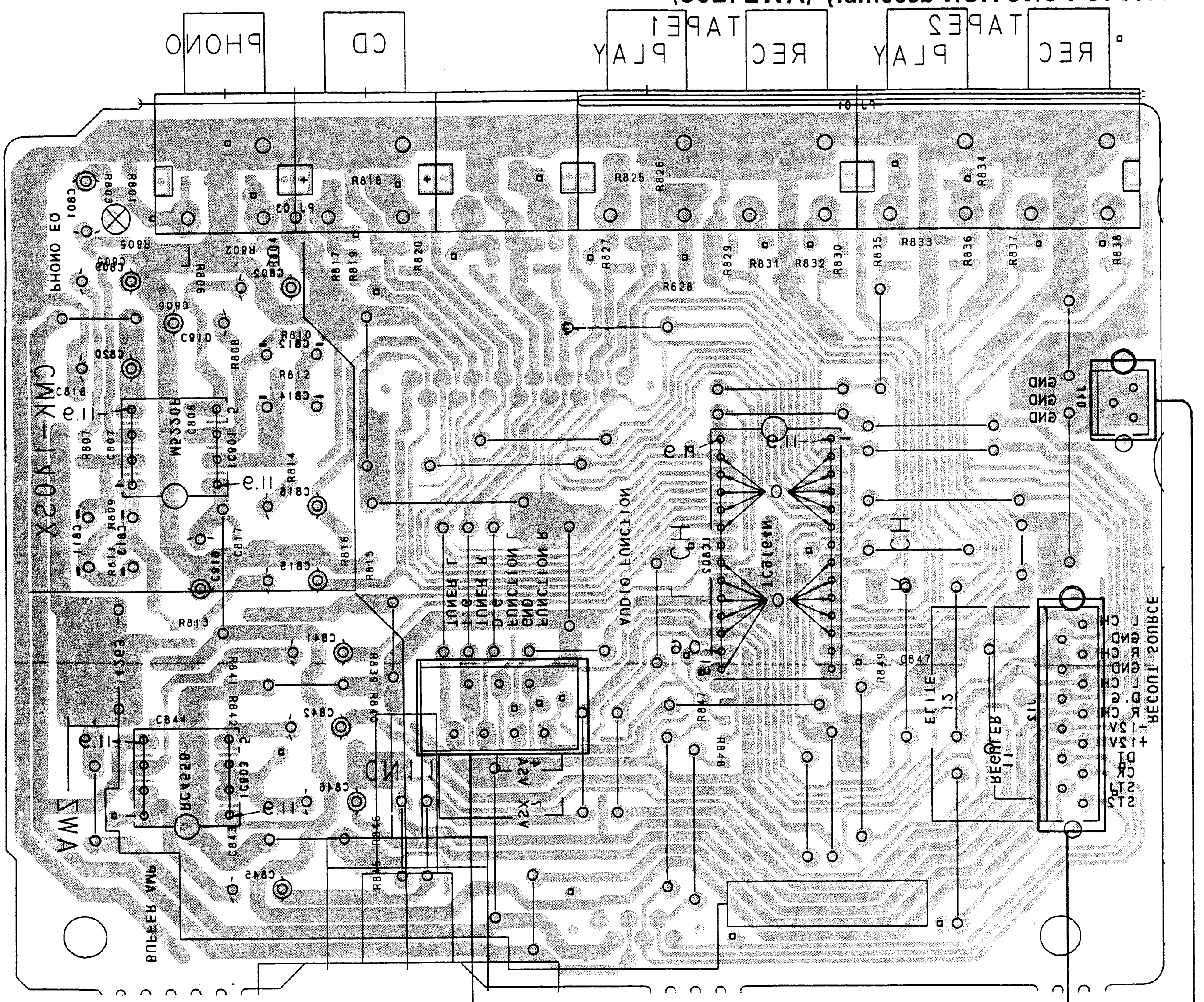
To CONNECTION assembly J11 (➔ P17)

To A/V FUNCTION assembly J12 (➔ P30)

To A/V FUNCTION assembly J40 (➔ P30)

This P. C. B connection diagram is viewed from the parts mounted side.

## AUDIO FUNCTION assembly (AWZ4263)


PHONO
CD
TAPE1
PLAY
REC
TAPE2
PLAY
REC
PHONO EQ
BUFFER AMP
AUDIO FUNCTION
TUNER L
TUNER R
FUNCTION L
FUNCTION R
IC801
IC802
IC803
M5220L
NJM4558
BA3308
J40
GND
GND
GND
J12
RECORD SOURCE
L CH
GND
R CH
GND
+12V
−12V
CK
ST
ST2
CMX-1405X
AWZ

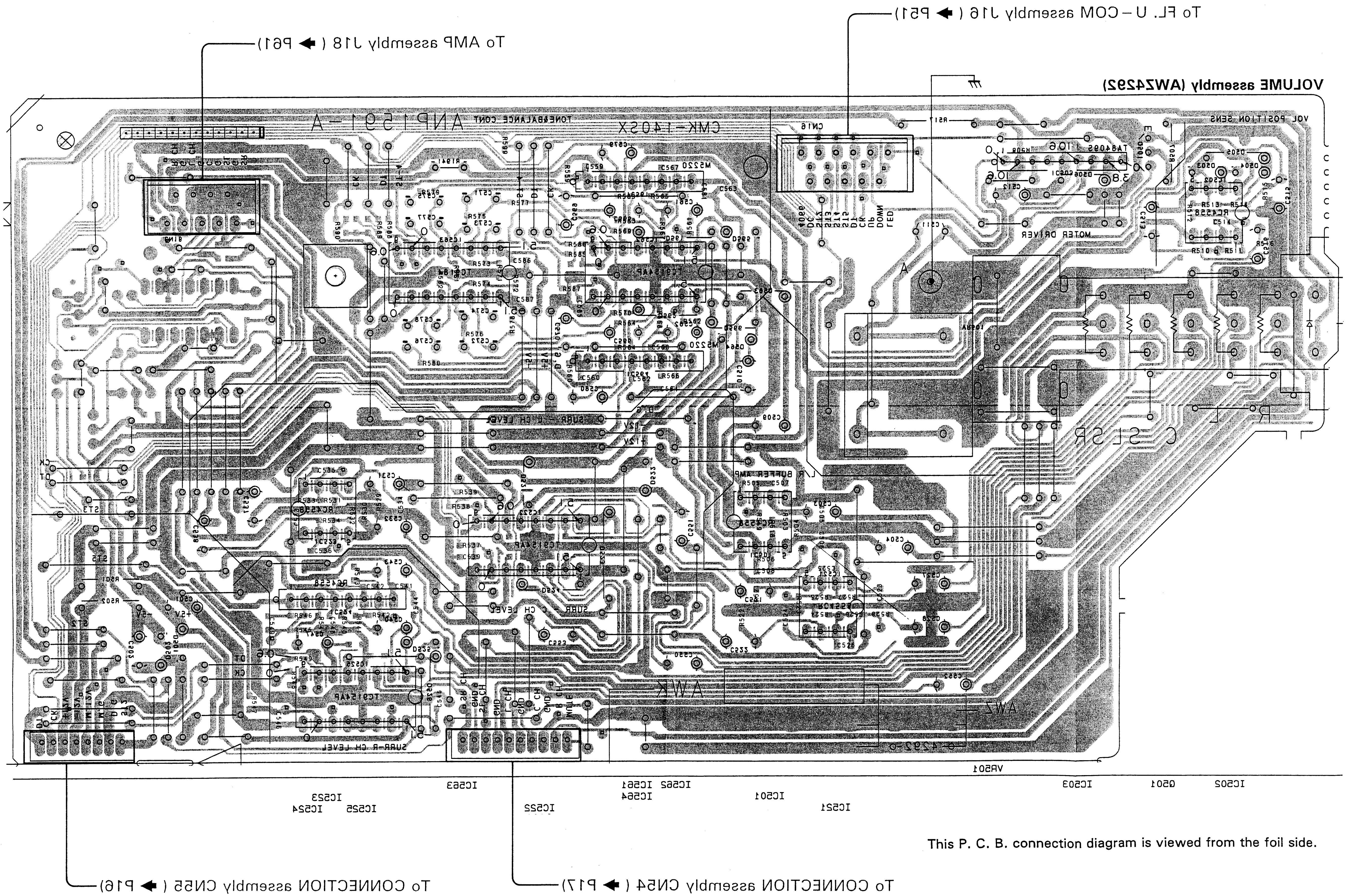
To CONNECTION assembly J11 ( ➜ P17)

To A/V FUNCTION assembly J12 ( ➜ P30)

To A/V FUNCTION assembly J40 ( ➜ P30)

This P. C. B. connection diagram is viewed from the foil side.

### 5.7 VOLUME ASSEMBLY

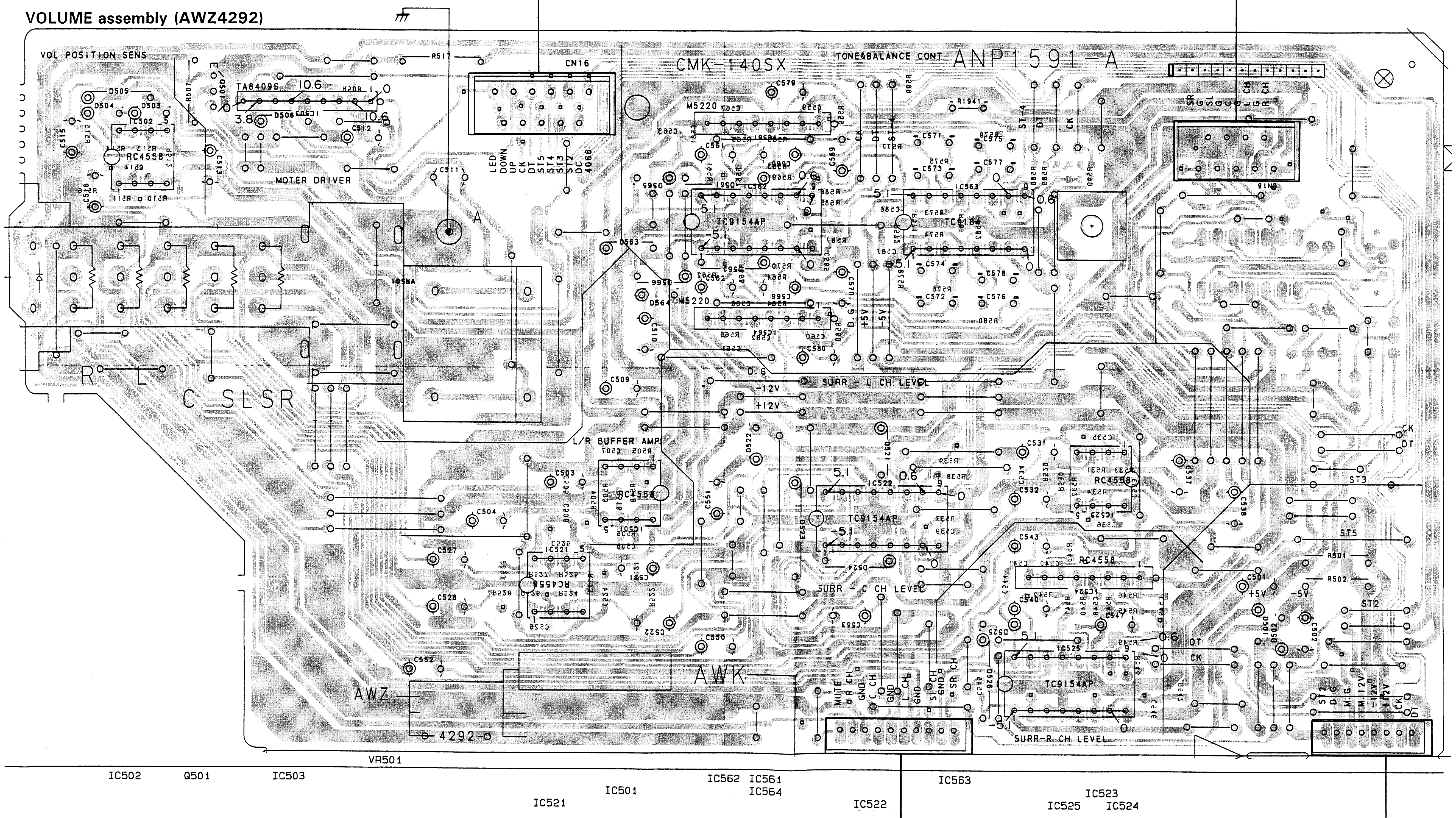

To FL. U-COM assembly J16 (→ P51)
To AMP assembly J18 (→ P61)
VOLUME assembly (AWZ4292)
ANP1591-A
CMK-1405X
TONE&BALANCE CONT
CN16
VOL POSITION SENS
MOTOR DRIVER
TA84095
RC4558
M5220
TC9154AP
SURR-CH LEVEL
L/R BUFFER AMP
C CH LEVEL
SURR-R CH LEVEL
AWZ
VR501
IC563
IC561 IC562
IC564
IC501
IC521
IC503
Q501
IC502
IC523
IC524 IC525
IC522
To CONNECTION assembly CN55 (→ P16)
To CONNECTION assembly CN54 (→ P17)

This P. C. B. connection diagram is viewed from the foil side.

To FL. U－COM assembly J16 (➔ P51)

To AMP assembly J18 (➔ P61)

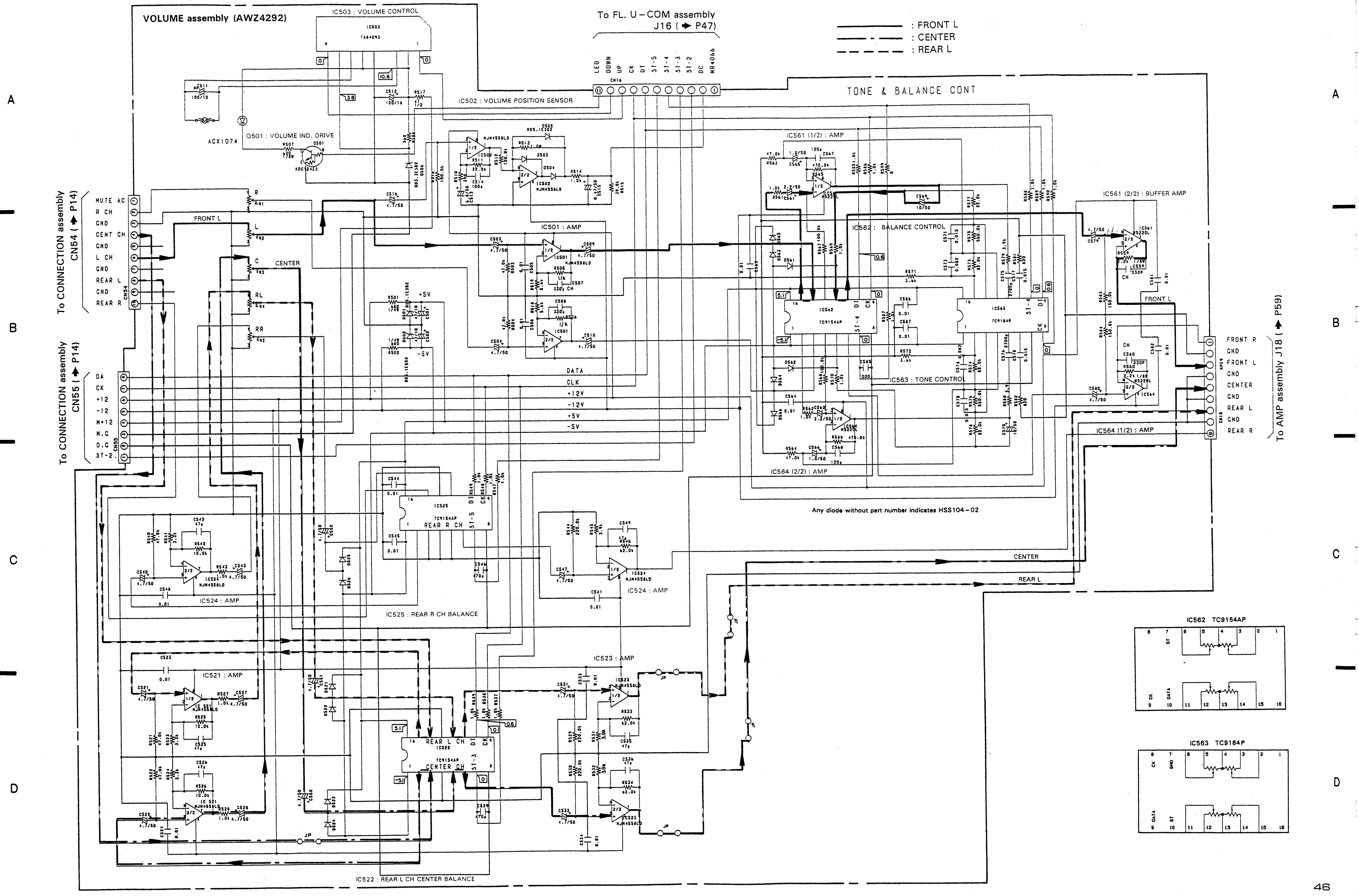
**VOLUME assembly (AWZ4292)**


VOL POSITION SENS
TA8409S
MOTER DRIVER
CN16
LED
DOWN
UP
CK
DT
ST5
ST4
ST3
ST2
DC
4066
CMK-140SX
TONE&BALANCE CONT
ANP1591-A
M5220
TC9154AP
RC4558
RC4558
L/R BUFFER AMP
SURR - L CH LEVEL
SURR - C CH LEVEL
SURR-R CH LEVEL
-12V
+12V
+5V
-5V
D.G
R L C SL SR
AWZ
4292
AWK
VR501
CN18
MUTE
R CH
GND
C CH
L CH
SL CH
SR CH
ST2
M.G
CK
DT
ST3
ST5
R501
R502
A
10.6
3.8
0.6
5.1
IC502
Q501
IC503
IC521
IC501
IC562
IC561
IC564
IC563
IC522
IC523
IC525
IC524

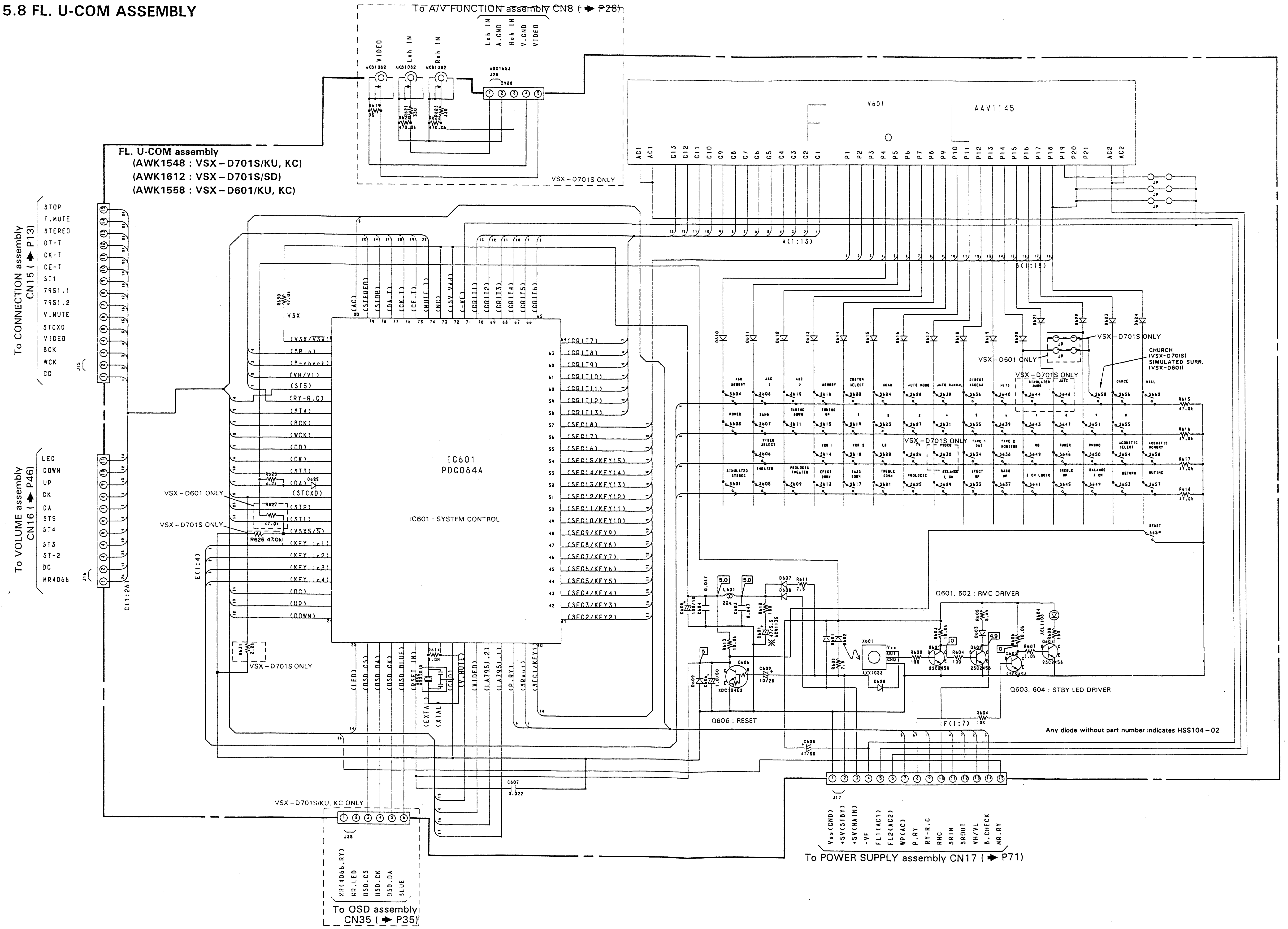
This P. C. B connection diagram is viewed from the parts mounted side.

To CONNECTION assembly CN54 (➔ P17)

To CONNECTION assembly CN55 (➔ P16)

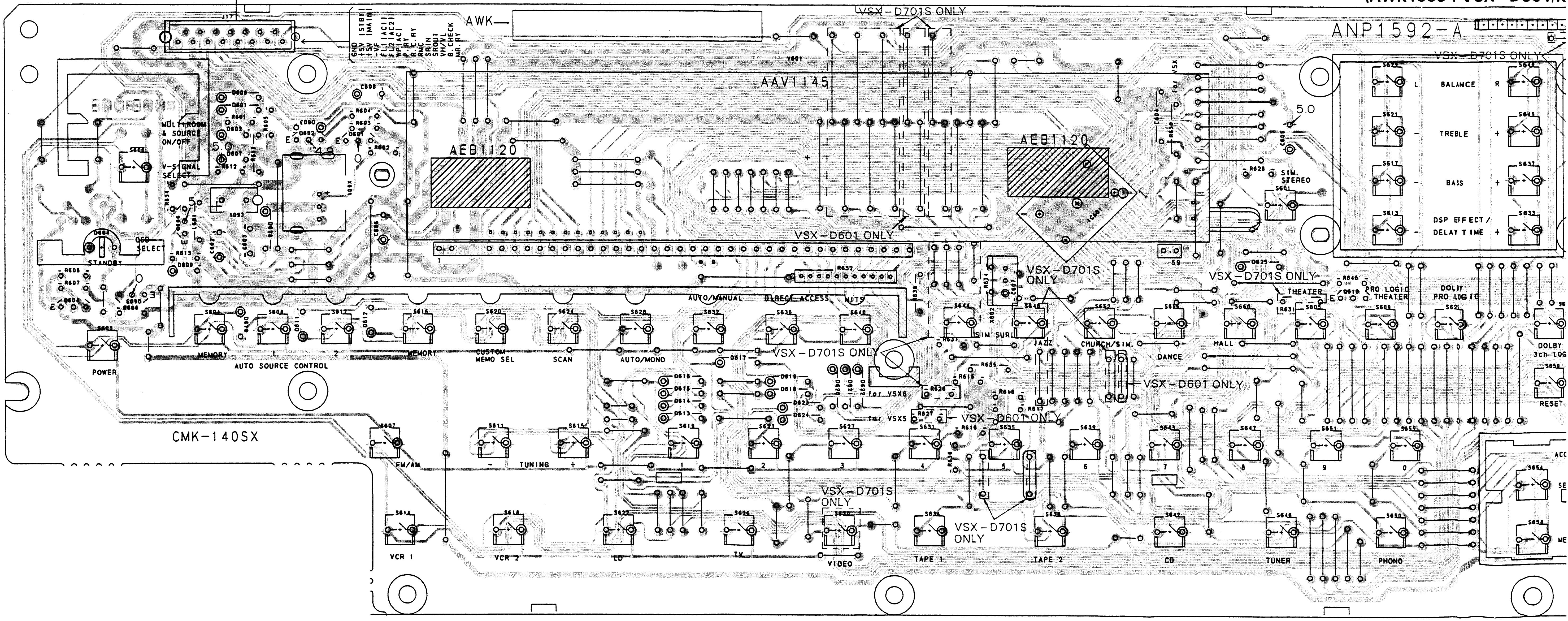

VOLUME assembly (AWZ4292)
IC503 : VOLUME CONTROL
TA6409S
IC502 : VOLUME POSITION SENSOR
Q501 : VOLUME IND. DRIVE
ACX1074
To FL. U-COM assembly J16 (➡ P47)
LED
DOWN
UP
CK
DT
ST-5
ST-4
ST-3
ST-2
DC
MR4066
CN16
: FRONT L
: CENTER
: REAR L
TONE & BALANCE CONT
To CONNECTION assembly CN54 (➡ P14)
MUTE AC
R CH
GND
CENT CH
GND
L CH
GND
REAR L
GND
REAR R
CN54
FRONT L
CENTER
To CONNECTION assembly CN55 (➡ P14)
DA
CK
+12
-12
M+12
N.C
D.G
ST-2
CN55
DATA
CLK
+12V
-12V
+5V
-5V
IC501 : AMP
NJM4558LD
IC561 (1/2) : AMP
IC561 (2/2) : BUFFER AMP
IC562 : BALANCE CONTROL
TC9154AP
IC563 : TONE CONTROL
TC9184P
IC564 (1/2) : AMP
IC564 (2/2) : AMP
NJM5220L
To AMP assembly J18 (➡ P59)
FRONT R
GND
FRONT L
GND
CENTER
GND
REAR L
GND
REAR R
CN18
Any diode without part number indicates HSS104-02
IC525
TC9154AP
REAR R CH
IC525 : REAR R CH BALANCE
IC524 : AMP
IC521 : AMP
IC523 : AMP
IC522
TC9154AP
REAR L CH
CENTER CH
IC522 : REAR L CH CENTER BALANCE
JP
CENTER
REAR L
IC562 TC9154AP
IC563 TC9184P
ST
CK
DATA
GND
+5V
-5V
5.1
-5.1
0.6
1
2
3
4
5
6
A
B
C
D

## 5.8 FL. U-COM ASSEMBLY


To A/V FUNCTION assembly CN8 ( ➜ P28)
Lch IN
A.GND
Rch IN
V.GND
VIDEO
AKB1062
AKB1062
AKB1062
ADX1653
J26
CN26
VSX-D701S ONLY
FL. U-COM assembly
(AWK1548 : VSX-D701S/KU, KC)
(AWK1612 : VSX-D701S/SD)
(AWK1558 : VSX-D601/KU, KC)
V601
AAV1145
To CONNECTION assembly CN15 ( ➜ P13)
STOP
T.MUTE
STEREO
DT-T
CK-T
CE-T
ST1
7951.1
7951.2
V.MUTE
STCXD
VIDEO
BCK
WCK
CD
J15
To VOLUME assembly CN16 ( ➜ P46)
LED
DOWN
UP
CK
DA
ST5
ST4
ST3
ST-2
DC
MR4066
J16
C(1:26)
E(1:4)
A(1:13)
B(1:18)
F(1:7)
IC601
PDG084A
IC601 : SYSTEM CONTROL
VSX-D601 ONLY
VSX-D701S ONLY
R626 47.0k
VSX-D701S ONLY
VSX-D701S ONLY
VSX-D601 ONLY
CHURCH
(VSX-D701S)
SIMULATED SURR.
(VSX-D601)
JP
Q601, 602 : RMC DRIVER
Q603, 604 : STBY LED DRIVER
Q606 : RESET
AXX1023
Any diode without part number indicates HSS104-02
J17
Vss(GND)
+5V(STBY)
+5V(MAIN)
-VF
FL1(AC1)
FL2(AC2)
WP(AC)
P.RY
RY-R.C
RMC
SRIN
SROUT
VH/VL
B.CHECK
HR.RY
To POWER SUPPLY assembly CN17 ( ➜ P71)
VSX-D701S/KU, KC ONLY
J35
MR(4066,RY)
MR.LED
OSD.CS
OSD.CK
OSD.DA
BLUE
To OSD assembly CN35 ( ➜ P35)

**FL. U-COM assembly (AWK1548 : VSX−D701S/**
**(AWK1612 : VSX−D701S/**
**(AWK1558 : VSX−D601/K**

To POWER SUPPLY assembly CN17 (➜ P70)



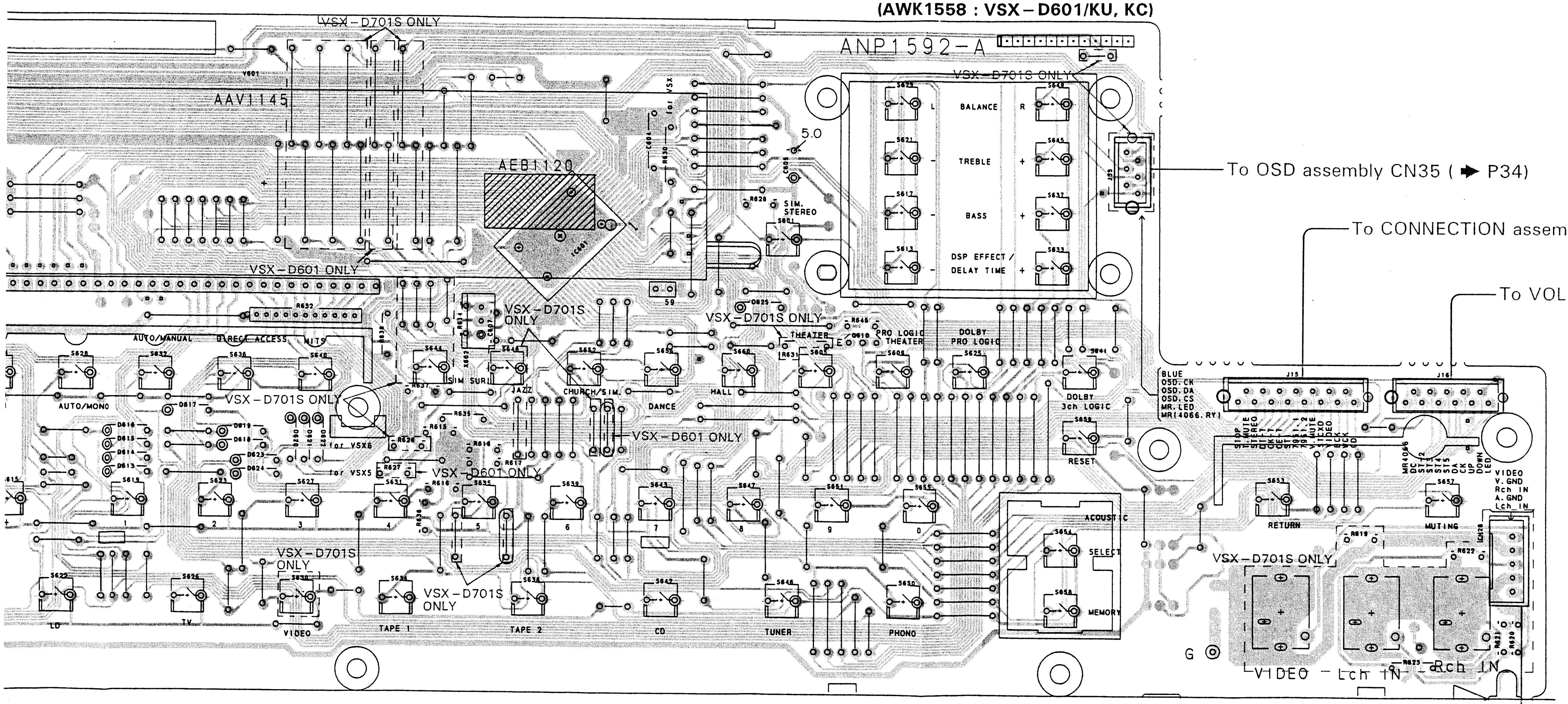
AWK—
ANP1592-A
AAV1145
AEB1120
AEB1120
CMK-140SX
VSX−D701S ONLY
VSX−D601 ONLY
J17
GND
+5V (STBY)
+5V (MAIN)
-VF
FL1 (AC1)
FL2 (AC2)
VP (AC)
P.RY
R.C.RY
RMC
SRIN
SROUT
VH/VL
B.CHECK
HR.RY
MULTI-ROOM & SOURCE ON/OFF
V-SIGNAL SELECT
OSD SELECT
STANDBY
5.0
POWER
MEMORY
AUTO SOURCE CONTROL
1
2
MEMORY
CUSTOM MEMO SEL
SCAN
AUTO/MONO
AUTO/MANUAL
DIRECT ACCESS
MUTE
SIM SURR
JAZZ
CHURCH/SIM.
DANCE
HALL
THEATER
PRO LOGIC THEATER
DOLBY PRO LOGIC
DOLBY 3ch LOGIC
RESET
SIM. STEREO
BALANCE
L
R
TREBLE
BASS
DSP EFFECT / DELAY TIME
FM/AM
TUNING
-
+
1
2
3
4
5
6
7
8
9
0
VCR 1
VCR 2
LD
TV
VIDEO
TAPE 1
TAPE 2
CD
TUNER
PHONO
for VSX6
for VSX5

To A

This P. C. B connection diagram is viewed from the parts mounted side.

( ➧ P70)

## FL. U-COM assembly (AWK1548 : VSX－D701S/KU, KC)
## (AWK1612 : VSX－D701S/SD)
## (AWK1558 : VSX－D601/KU, KC)


VSX－D701S ONLY
ANP1592－A
AAV1145
AEB1120
IC601
5.0
SIM. STEREO
BALANCE
L
R
TREBLE
BASS
DSP EFFECT / DELAY TIME
VSX－D601 ONLY
AUTO/MANUAL
DIRECT ACCESS
MITS
AUTO/MONO
SIM SURR
JAZZ
CHURCH/SIM.
DANCE
HALL
THEATER
PRO LOGIC THEATER
DOLBY PRO LOGIC
DOLBY 3ch LOGIC
RESET
for VSX6
for VSX5
1
2
3
4
5
6
7
8
9
0
ACOUSTIC
SELECT
MEMORY
LD
TV
VIDEO
TAPE 1
TAPE 2
CD
TUNER
PHONO
RETURN
MUTING
J15
J16
BLUE
OSD. CK
OSD. DA
OSD. CS
MR. LED
MR(4066. RY)
VIDEO
V. GND
Rch IN
A. GND
Lch IN
G
VIDEO － Lch IN － Rch IN

To OSD assembly CN35 ( ➧ P34)

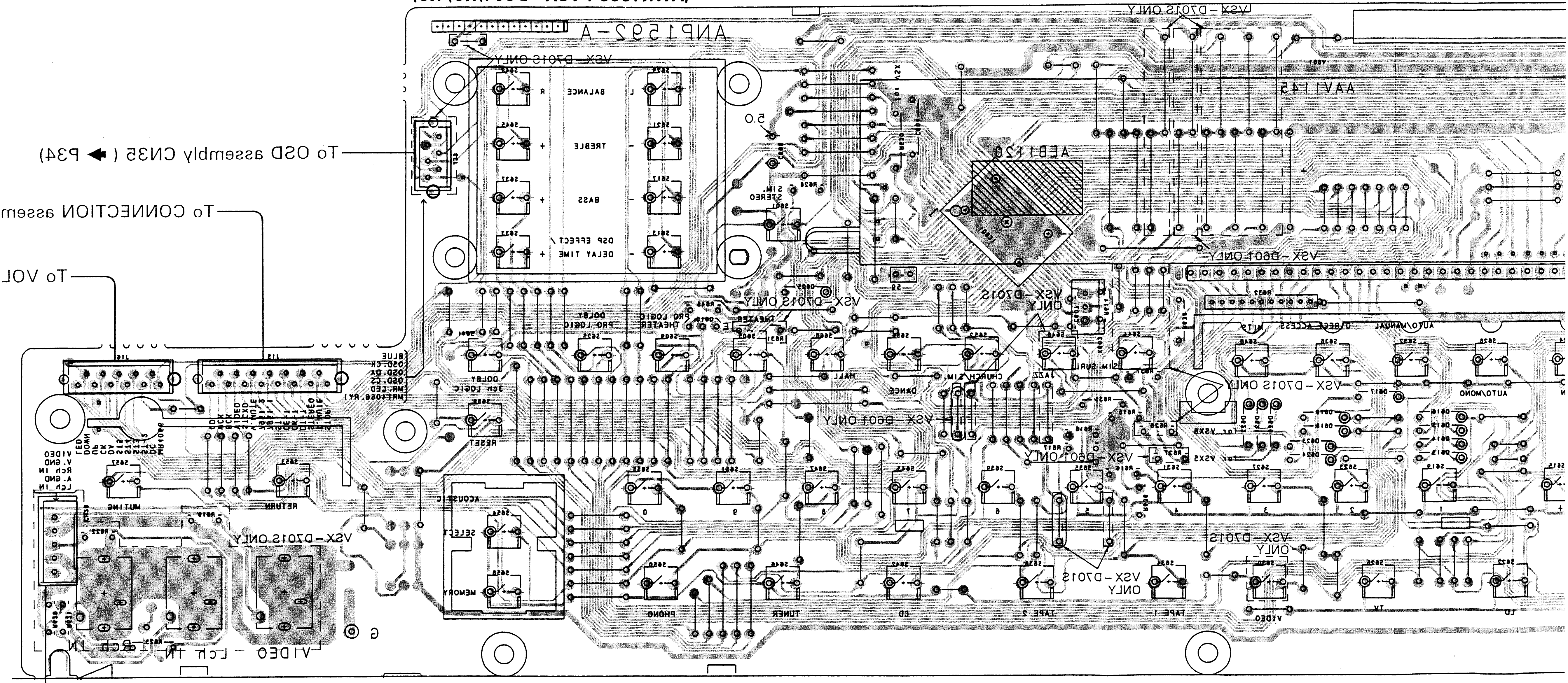
To CONNECTION assembly CN15 ( ➧ P16)

To VOLUME assembly CN16 ( ➧ P43)

To A/V FUNCTION assembly CN8 ( ➧ P29)

This P. C. B connection diagram is viewed from the parts mounted side.

## FL. U-COM assembly (AWK1548 : VSX-D701S/KU, KC)
## (AWK1612 : VSX-D701S/SD)
## (AWK1558 : VSX-D601/KU, KC)


ANP1592-A
AAV1145
AEB1120
VSX-D701S ONLY
VSX-D601 ONLY
BALANCE
TREBLE
BASS
DSP EFFECT / DELAY TIME
DOLBY PRO LOGIC
PRO LOGIC THEATER
THEATER
STEREO
HALL
DANCE
CHURCH
JAZZ
SIM. SUR.
DOLBY 3ch LOGIC
RESET
MUTING
RETURN
ACOUSTIC
SELECT
MEMORY
AUTO/MONO
AUTO/MANUAL
DIRECT ACCESS
MIT
PHONO
TUNER
CD
TAPE 2
TAPE 1
VIDEO
TV
LD
VIDEO - Lch IN
Rch IN
G
5.0
( → P70)

To OSD assembly CN35 ( → P34)

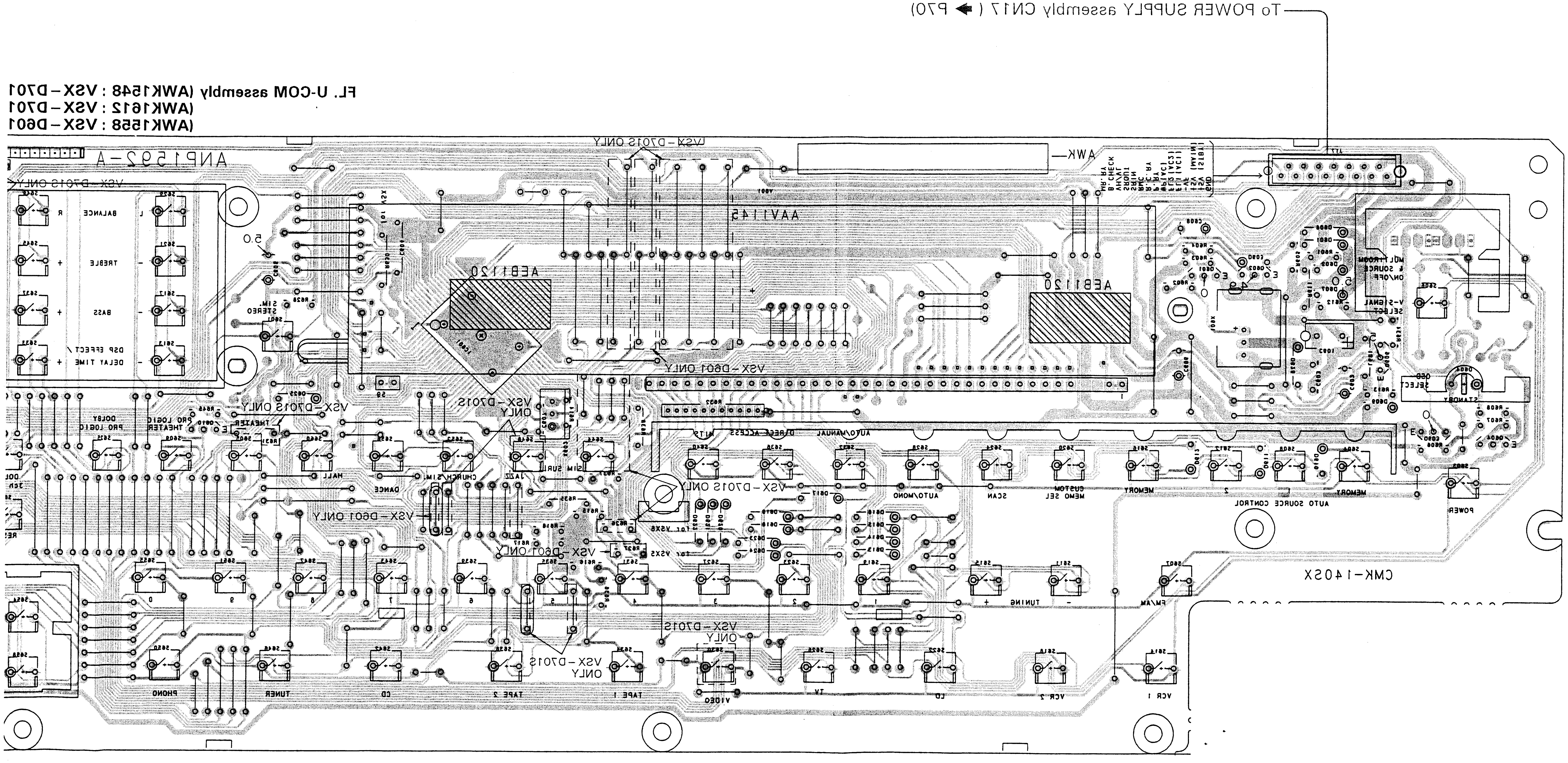
To CONNECTION assembly CN15 ( → P16)

To VOLUME assembly CN16 ( → P43)

To A/V FUNCTION assembly CN8 ( → P29)

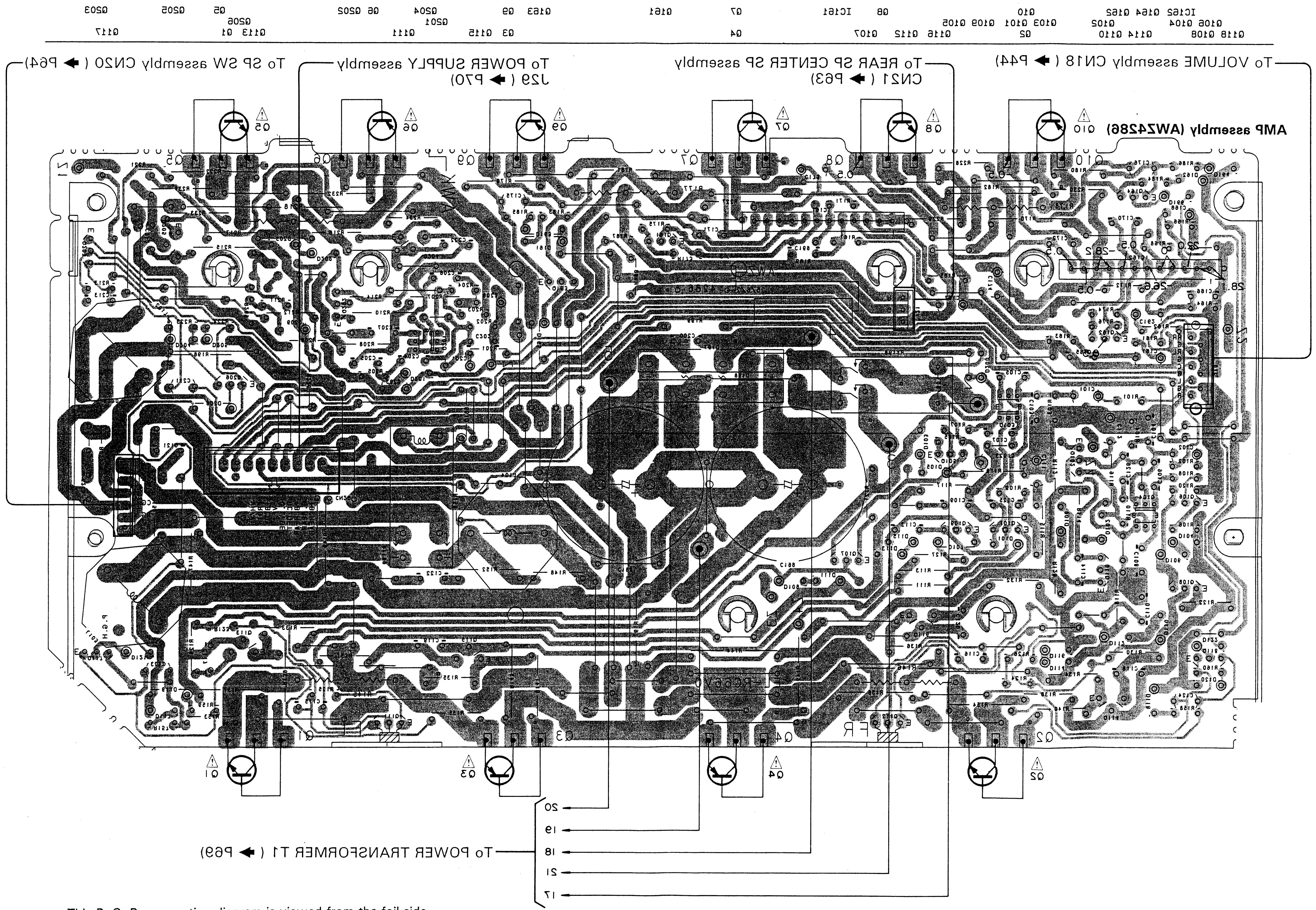
This P. C. B. connection diagram is viewed from the foil side.

**FL. U-COM assembly (AWK1548 : VSX-D701**
**(AWK1612 : VSX-D701**
**(AWK1558 : VSX-D601**


To POWER SUPPLY assembly CN17 ( ➡ P70)
ANP1592-A
AWK—
AAV1145
AEB1120
AEB1120
VSX-D701S ONLY
VSX-D601 ONLY
CMK-140SX
BALANCE
TREBLE
BASS
DSP EFFECT / DELAY TIME
DOLBY PRO LOGIC
PRO LOGIC THEATER
SIM. STEREO
HALL
DANCE
CHURCH
JAZZ
SIM. SURR
DIRECT ACCESS
AUTO/MANUAL
AUTO/MONO
SCAN
CUSTOM MEMO SEL
MEMORY
AUTO SOURCE CONTROL
POWER
MULTIROOM & SOURCE ON/OFF
V-SIGNAL SELECT
OSD SELECT
STANDBY
TUNING
FM/AM
PHONO
TUNER
CD
TAPE 2
TAPE 1
VIDEO
TV
LD
VCR 2
VCR 1
To

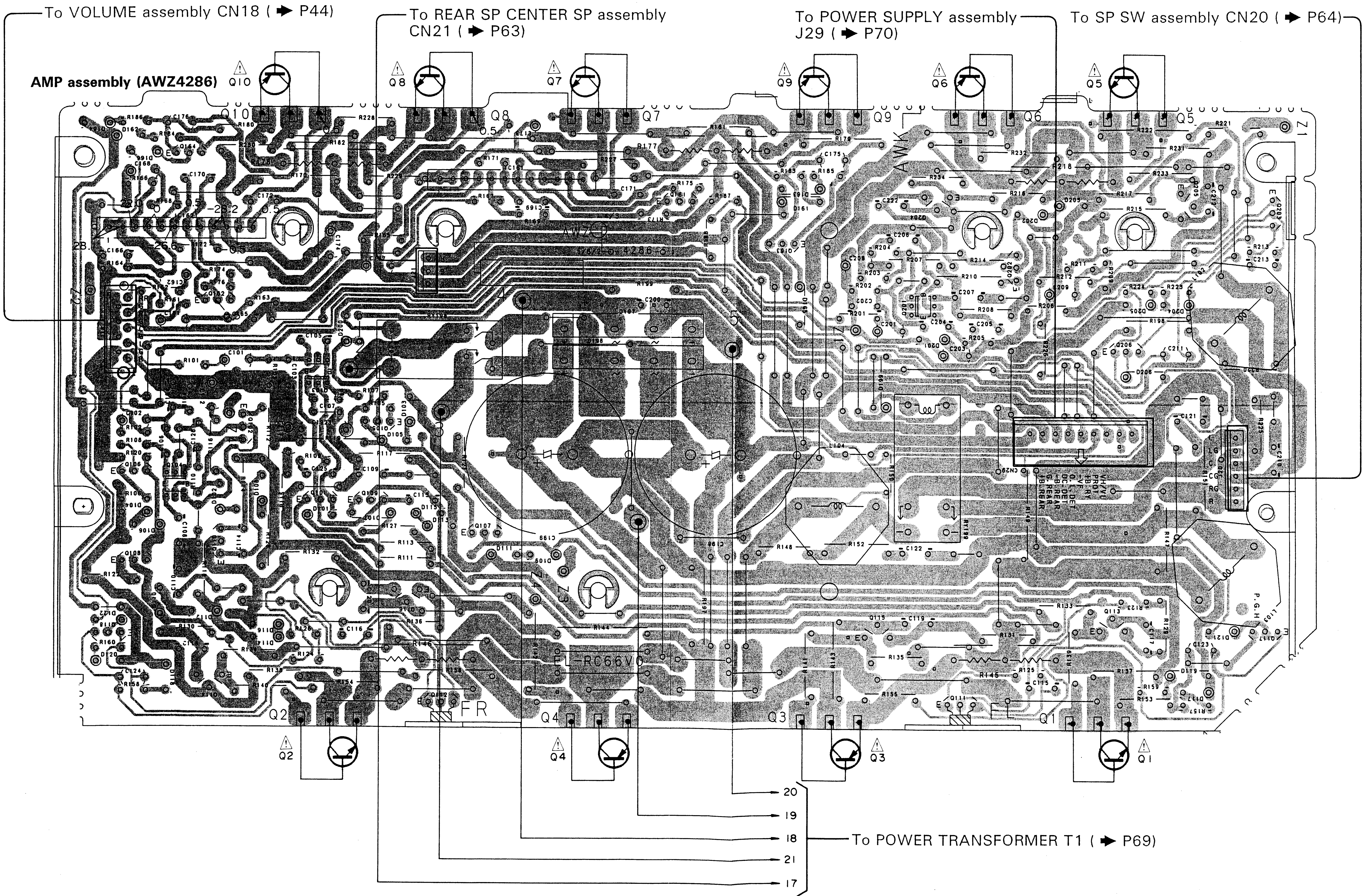
This P. C. B. connection diagram is viewed from the foil side.

## 5.9 AMP ASSEMBLY

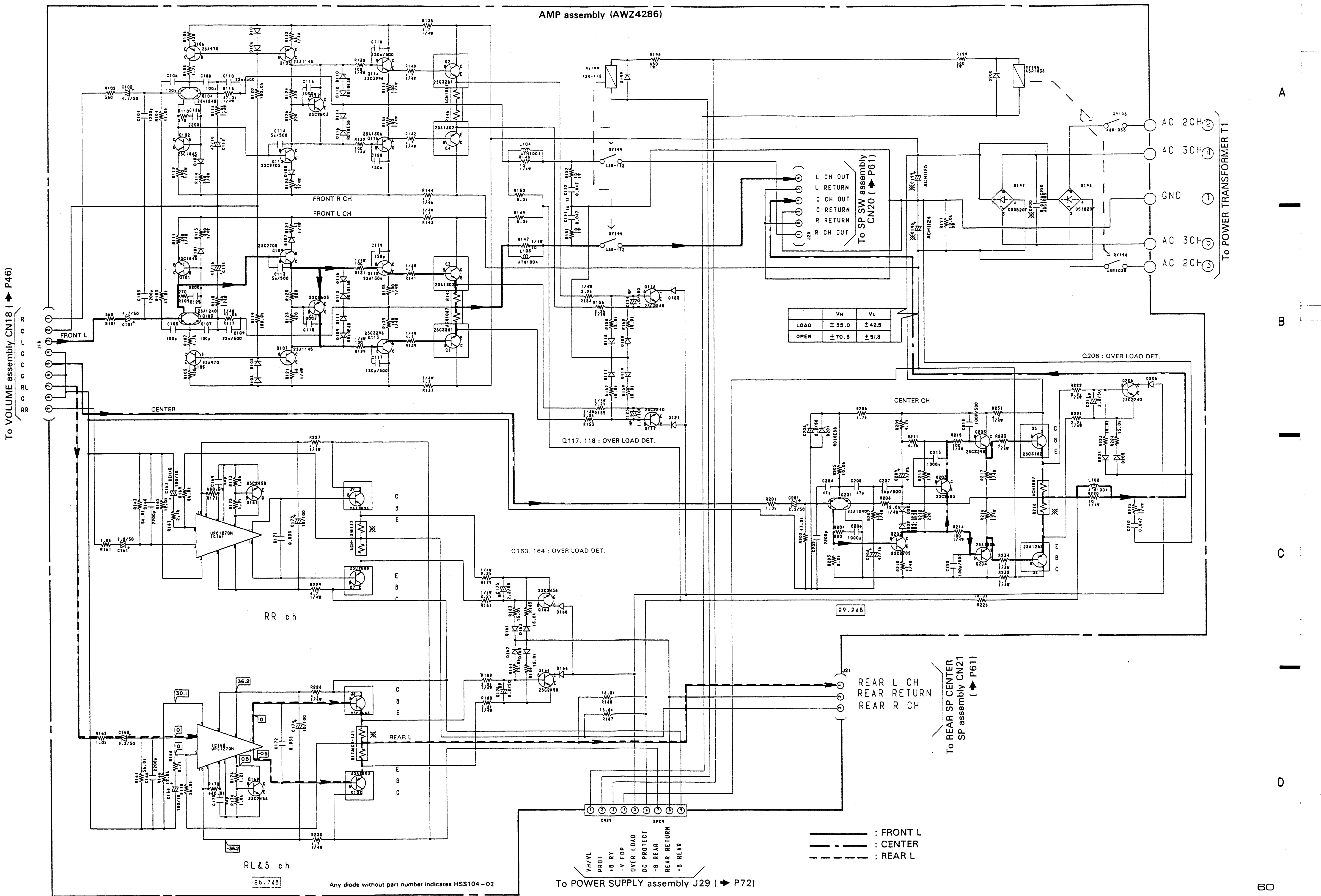

To SP SW assembly CN20 ( ➡ P64)
To POWER SUPPLY assembly J29 ( ➡ P70)
To REAR SP CENTER SP assembly CN21 ( ➡ P63)
To VOLUME assembly CN18 ( ➡ P44)
AMP assembly (AWZ4286)
Q5
Q6
Q9
Q7
Q8
Q10
Q1
Q3
Q4
Q2
To POWER TRANSFORMER T1 ( ➡ P69)
20
19
18
12
17

This P. C. B. connection diagram is viewed from the foil side.

IC162 Q164 Q162 Q10 Q8 IC161 Q7 Q161 Q163 Q9 Q204 Q6 Q202 Q5 Q205 Q203
Q106 Q104 Q102 Q103 Q101 Q109 Q105 Q201 Q206
Q118 Q108 Q114 Q110 Q2 Q116 Q112 Q107 Q4 Q3 Q115 Q111 Q113 Q1 Q117


To VOLUME assembly CN18 (➜ P44)
To REAR SP CENTER SP assembly CN21 (➜ P63)
To POWER SUPPLY assembly J29 (➜ P70)
To SP SW assembly CN20 (➜ P64)
AMP assembly (AWZ4286)
Q10
Q8
Q7
Q9
Q6
Q5
Q2
Q4
Q3
Q1
FR
EL-RC66V0
AWZ4286
20
19
18
21
17
To POWER TRANSFORMER T1 (➜ P69)

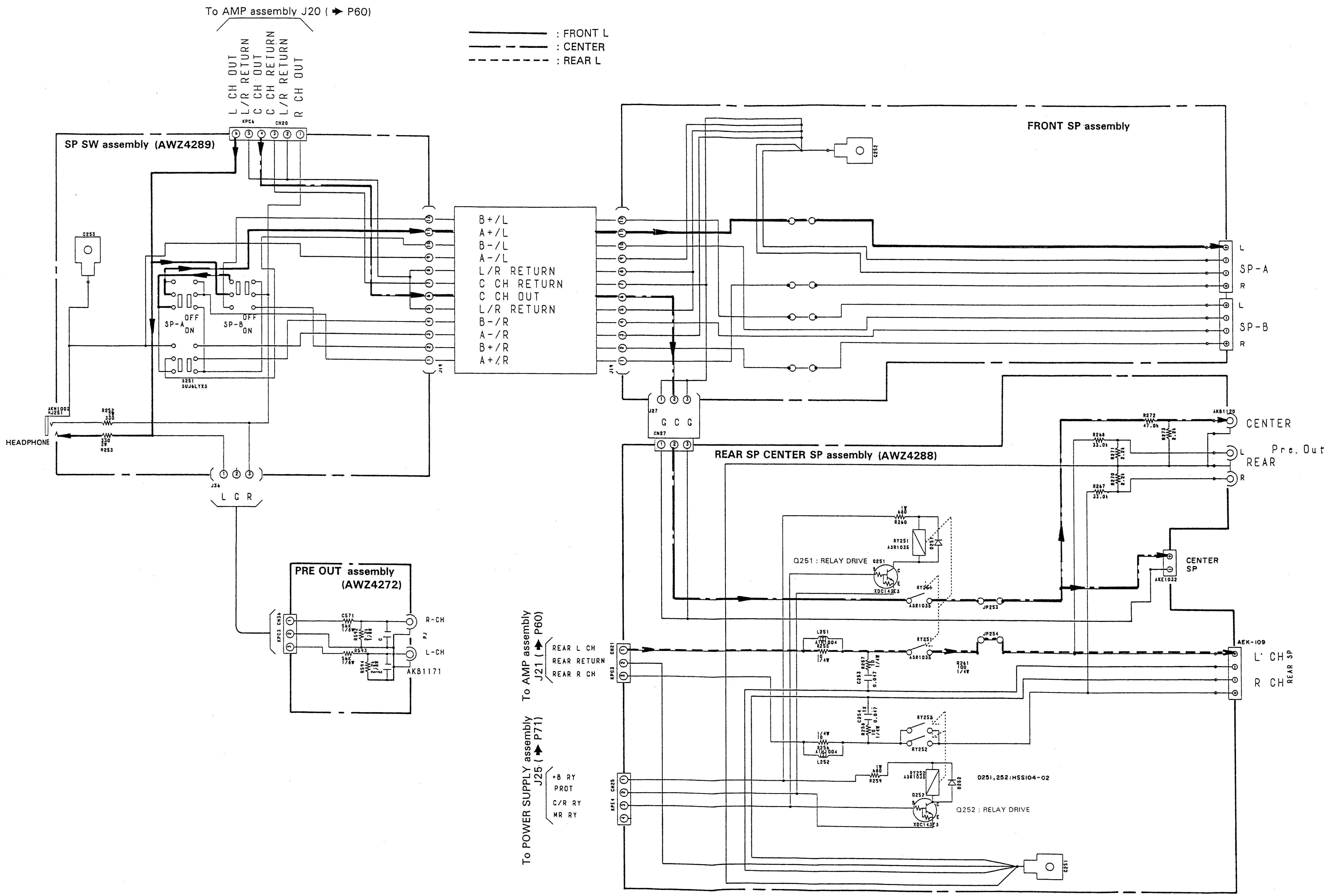
This P. C. B connection diagram is viewed from the parts mounted side.


AMP assembly (AWZ4286)
To VOLUME assembly CN18 (➔ P46)
FRONT L
FRONT R CH
FRONT L CH
CENTER
CENTER CH
RR ch
RL&S ch
REAR L
Q117, 118 : OVER LOAD DET.
Q163, 164 : OVER LOAD DET.
Q206 : OVER LOAD DET.
L CH OUT
L RETURN
C CH OUT
C RETURN
R RETURN
R CH OUT
To SP SW assembly CN20 (➔ P61)
AC 2CH ②
AC 3CH ④
GND ①
AC 3CH ⑤
AC 2CH ③
To POWER TRANSFORMER T1
REAR L CH
REAR RETURN
REAR R CH
To REAR SP CENTER SP assembly CN21 (➔ P61)
VH/VL
PROT
+B RY
-V FDP
OVER LOAD
DC PROTECT
-B REAR
REAR RETURN
+B REAR
To POWER SUPPLY assembly J29 (➔ P72)
CN29
KPC9
29.2dB
26.7dB
30.1
36.2
-36.2
: FRONT L
: CENTER
: REAR L

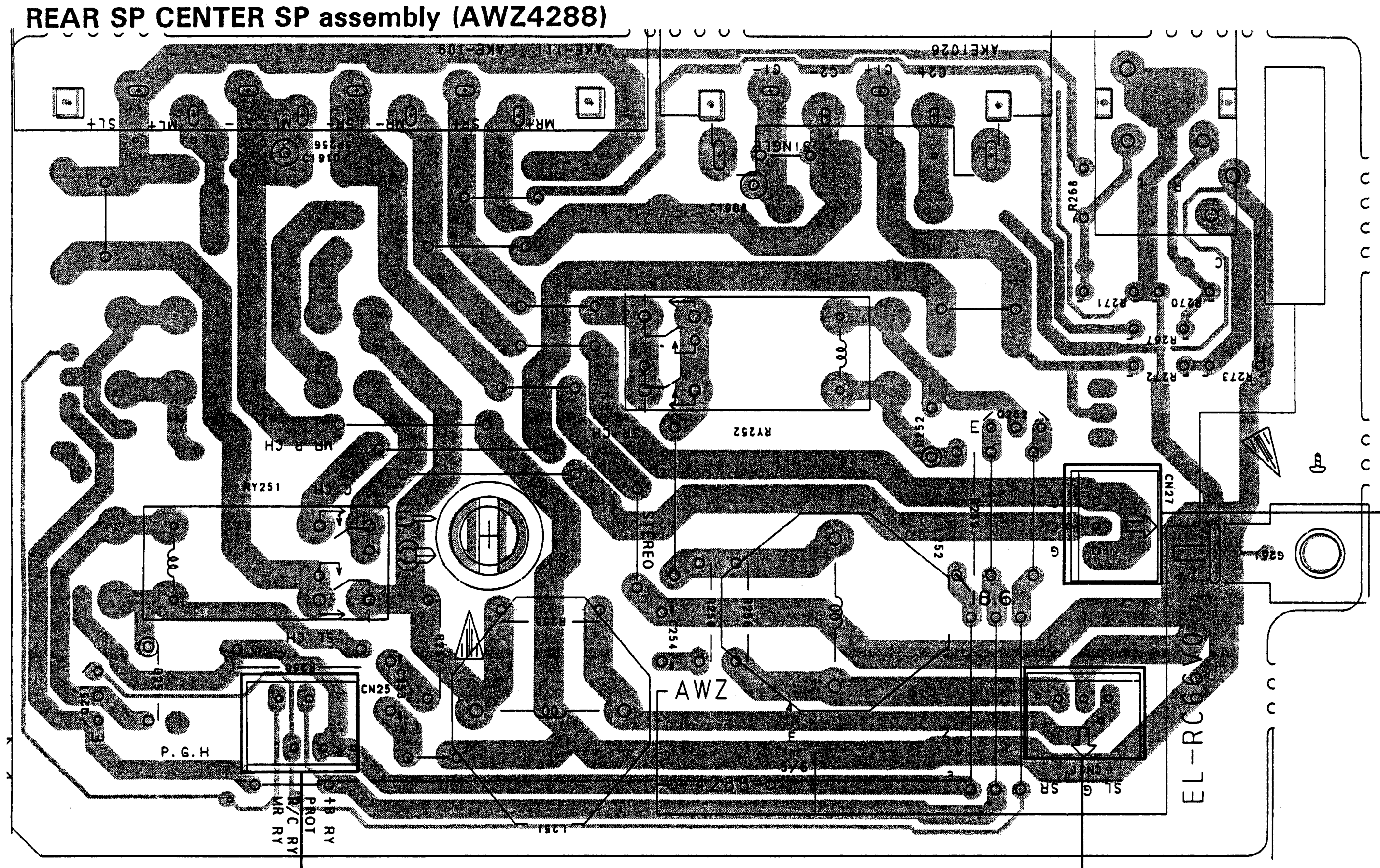
|  | VH | VL |
|---|---|---|
| LOAD | ±55.0 | ±42.5 |
| OPEN | ±70.3 | ±51.3 |

Any diode without part number indicates HSS104-02

## 5.10 SP SW ASSEMBLY, FRONT SP ASSEMBLY, PRE OUT ASSEMBLY AND REAR SP CENTER SP ASSEMBLY


To AMP assembly J20 ( ➔ P60)
: FRONT L
: CENTER
: REAR L
L CH OUT
L/R RETURN
C CH OUT
C CH RETURN
L/R RETURN
R CH OUT
KPC6
CN20
SP SW assembly (AWZ4289)
C253
SP-A OFF ON
SP-B OFF ON
S251
SUJ6LYX3
AKN1002
HJ251
R252 330
R253 330
HEADPHONE
J36
L G R
B+/L
A+/L
B-/L
A-/L
L/R RETURN
C CH RETURN
C CH OUT
L/R RETURN
B-/R
A-/R
B+/R
A+/R
J19
FRONT SP assembly
C252
L
SP-A
R
L
SP-B
R
J27
G C G
CN27
REAR SP CENTER SP assembly (AWZ4288)
AKB1120
CENTER
R272 47.0k
R273 8.2k
R268 33.0k
R271 8.2k
Pre. Out
L
REAR
R
R270 8.2k
R267 33.0k
R260 1W 680
RY251 ASR1035
D251
Q251 : RELAY DRIVE
Q251
XDC143E3
ASR1035
JP253
CENTER SP
AKE1032
PRE OUT assembly (AWZ4272)
KPC3 CN36
C571
R571 5k6 1/6W
R573
R574 5k6 1/6W
R-CH
L-CH
PJ
AKB1171
To AMP assembly J21 ( ➔ P60)
REAR L CH
REAR RETURN
REAR R CH
KPC3 CN21
L251
ATH1004
R255 10 1/4W
R257
C253 0.047
RY251
ASR1035
JP254
R261 100 1/4W
AEK-109
L CH
R CH
REAR SP
To POWER SUPPLY assembly J25 ( ➔ P71)
+B RY
PROT
C/R RY
MR RY
KPC4 CN25
C254
R258
R256 10 1/4W
ATH1004
L252
RY252
RY252
R259 1W 680
RY252 ASR1035
D252
D251,252:HSS104-02
Q252
XDC143E3
Q252 : RELAY DRIVE
C251

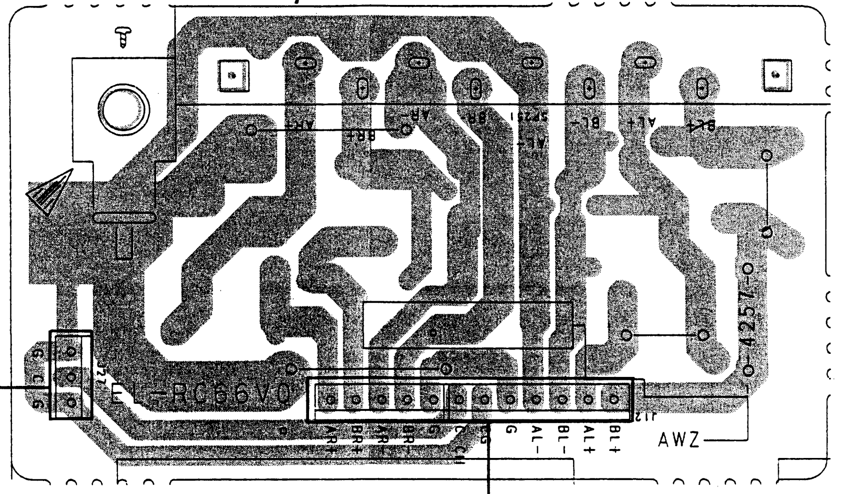
**REAR SP CENTER SP assembly (AWZ4288)**


SL+
SL-
RY251
RY252
CN27
CN25
P.G.H
AWZ
EL-RC66V0
STEREO
SL
SR
G
+B RY
PROT
B/C RY
MR RY

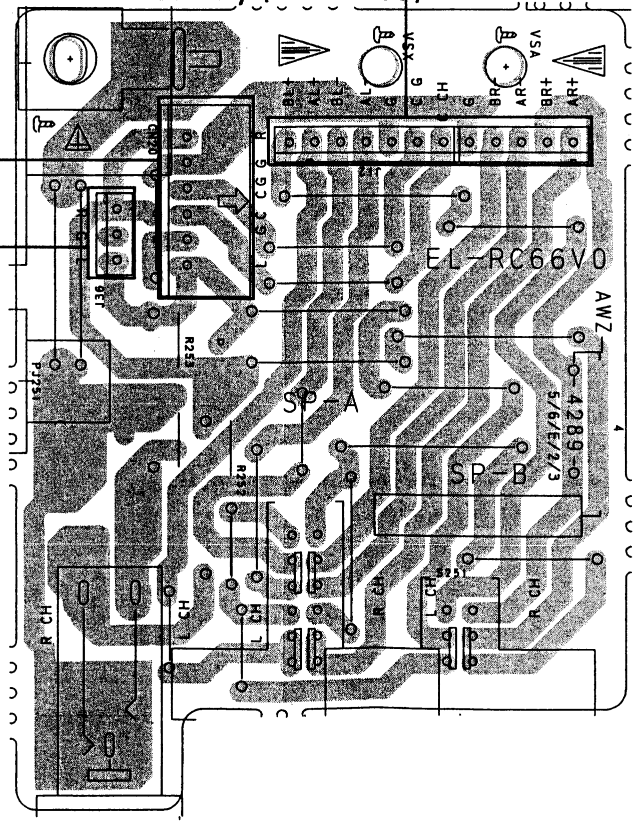
To AMP assembly J21 ( ➧ P57)

To POWER SUPPLY assembly J25 ( ➧ P69)

**FRONT SP assembly**

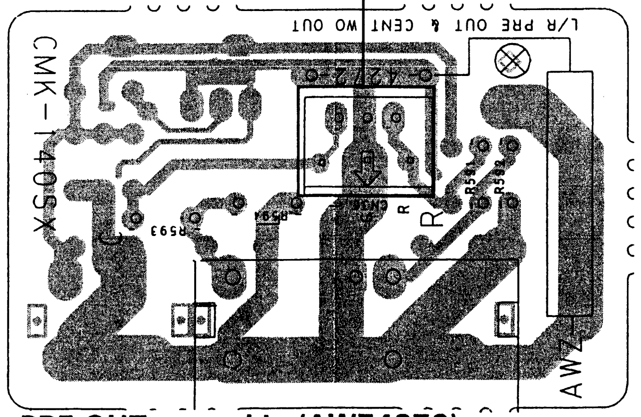

EL-RC66V0
AWZ
AL+
AL-
AR+
AR-
BL+
BL-
BR+
BR-
G

**SP SW assembly (AWZ4289)**


VSA
VSA
EL-RC66V0
AWZ
4289
SP-A
SP-B
R CH
L CH
S251

To AMP assembly J20 ( ➧ P58)

This P. C. B connection diagram is viewed from the parts mounted side.


L/R PRE OUT & CENT WO OUT
CMK-1405X
AWZ
R593
R

**PRE OUT assembly (AWZ4272)**

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.
3. The capactor terminal marked with ◎ (double circles) shows negatine terminal.
4. The diode terminal marked with ◎ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

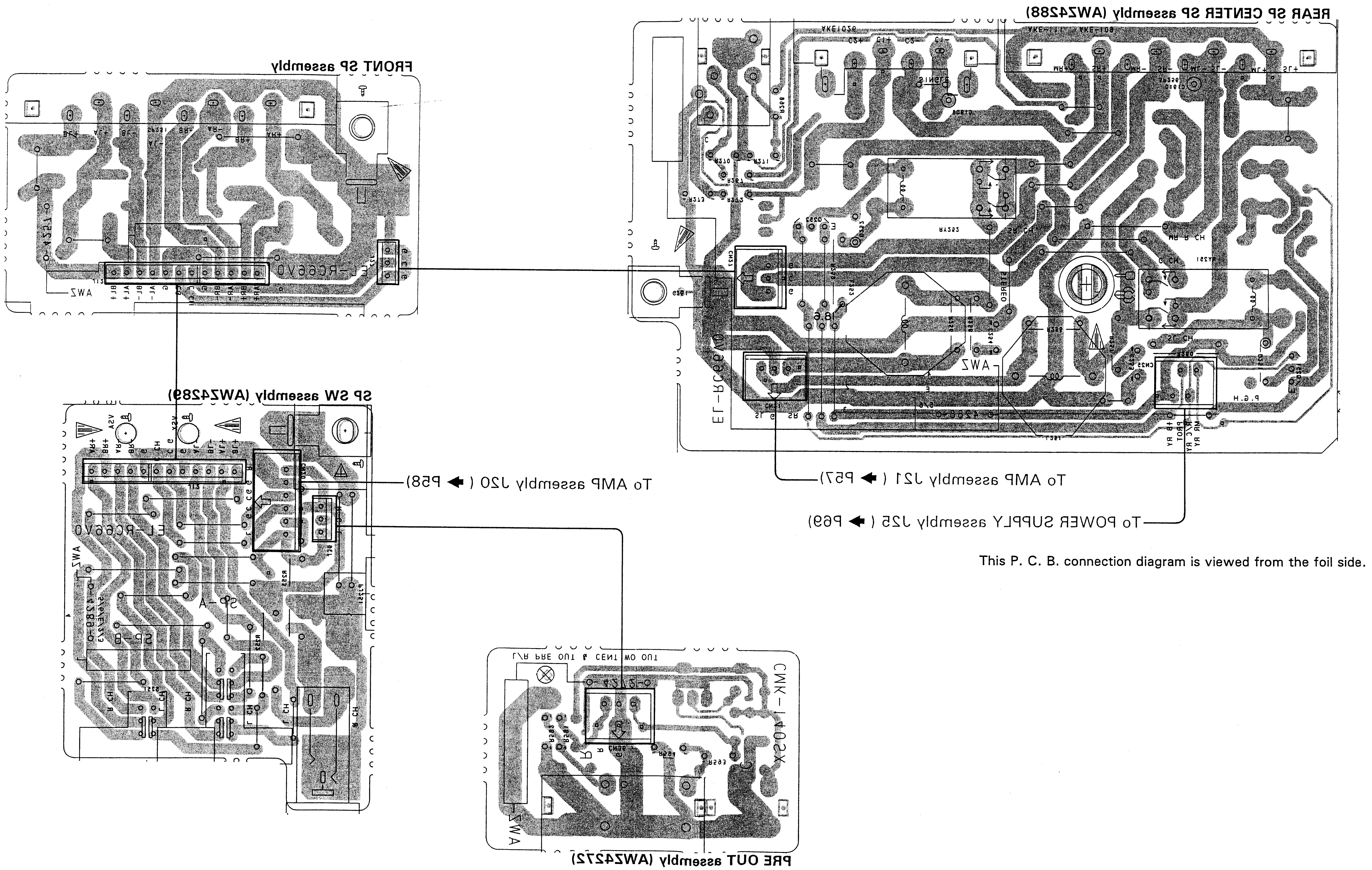
| P.C.B. pattern diagram indication | Corresponding part symbol | Part Name |
|---|---|---|
| Q504 E | E or E | Transistor |
| Q215 | or | Radiator type transistor |
| D203 | D203 | Diode |
| R237 | R237 | Resistor |
| C513 | + | Capacitor (Polarized) |
| C518 | | Capacitor (Non-polarized) |

Others

| P.C.B. pattern diagram indication | Part Name |
|---|---|
| IC | IC |
| S | Switch |
| RY | Relay |
| L | Coil |
| F | Filter |
| VR | Variable resistor or Semi-fixed resistor |

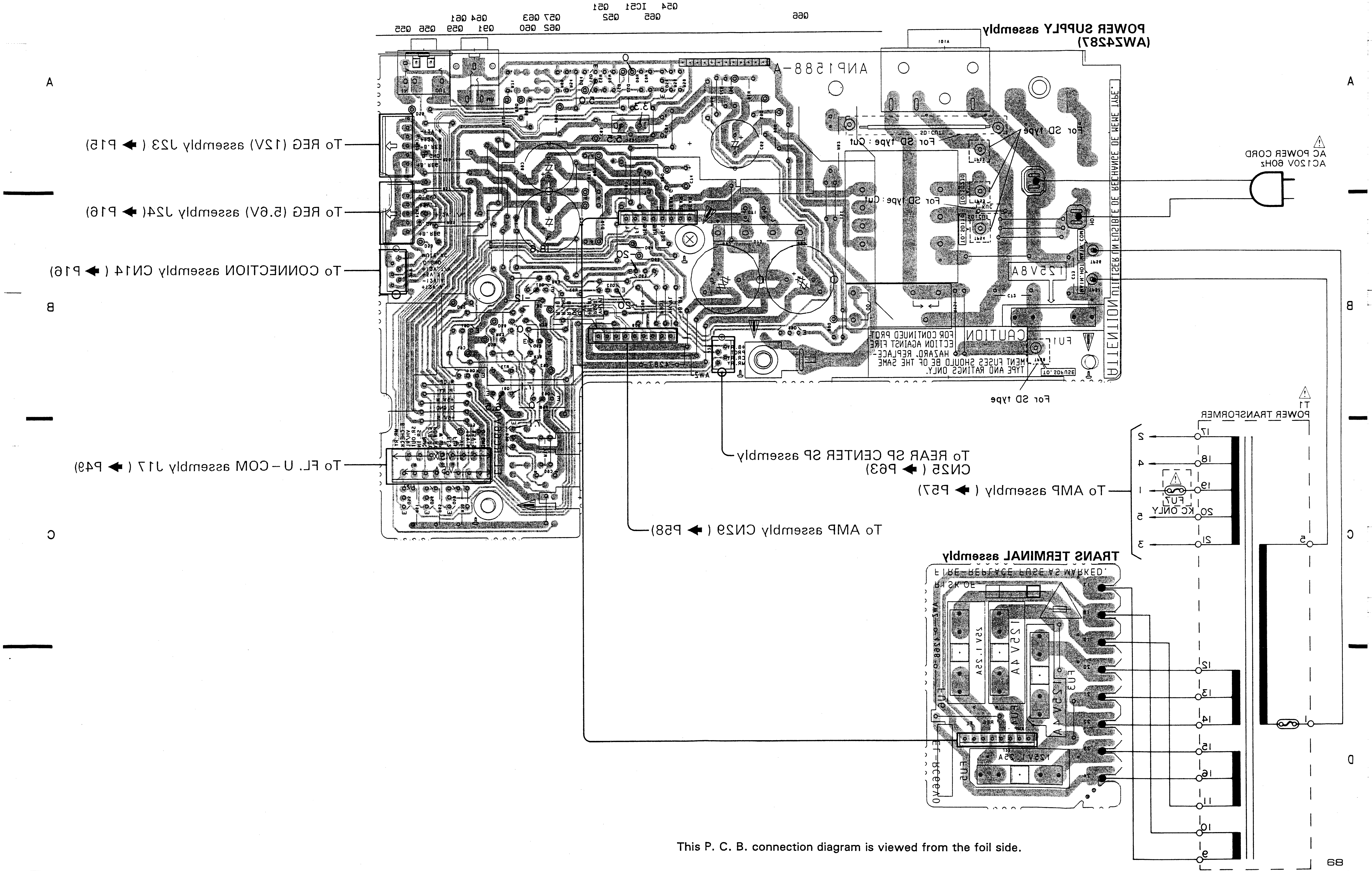
(FOR CANADIAN MODEL ONLY)
Fuse symbols ▮⊟ (Fast Operating Fuse) and/or ▮⊠ (Slow Operating Fuse) on P.C.B. indicate that replacement parts must be of identical designation.

(POUR MODÈLE CANADIEN SEULEMENT)
Sur P.C.I., les symboles de fusible ▮⊟ (Fusible de type rapide) et/ou ▮⊠ (Fusible de type lent) indiquent que les pièces de remplacement doivent avoir la même désignation.

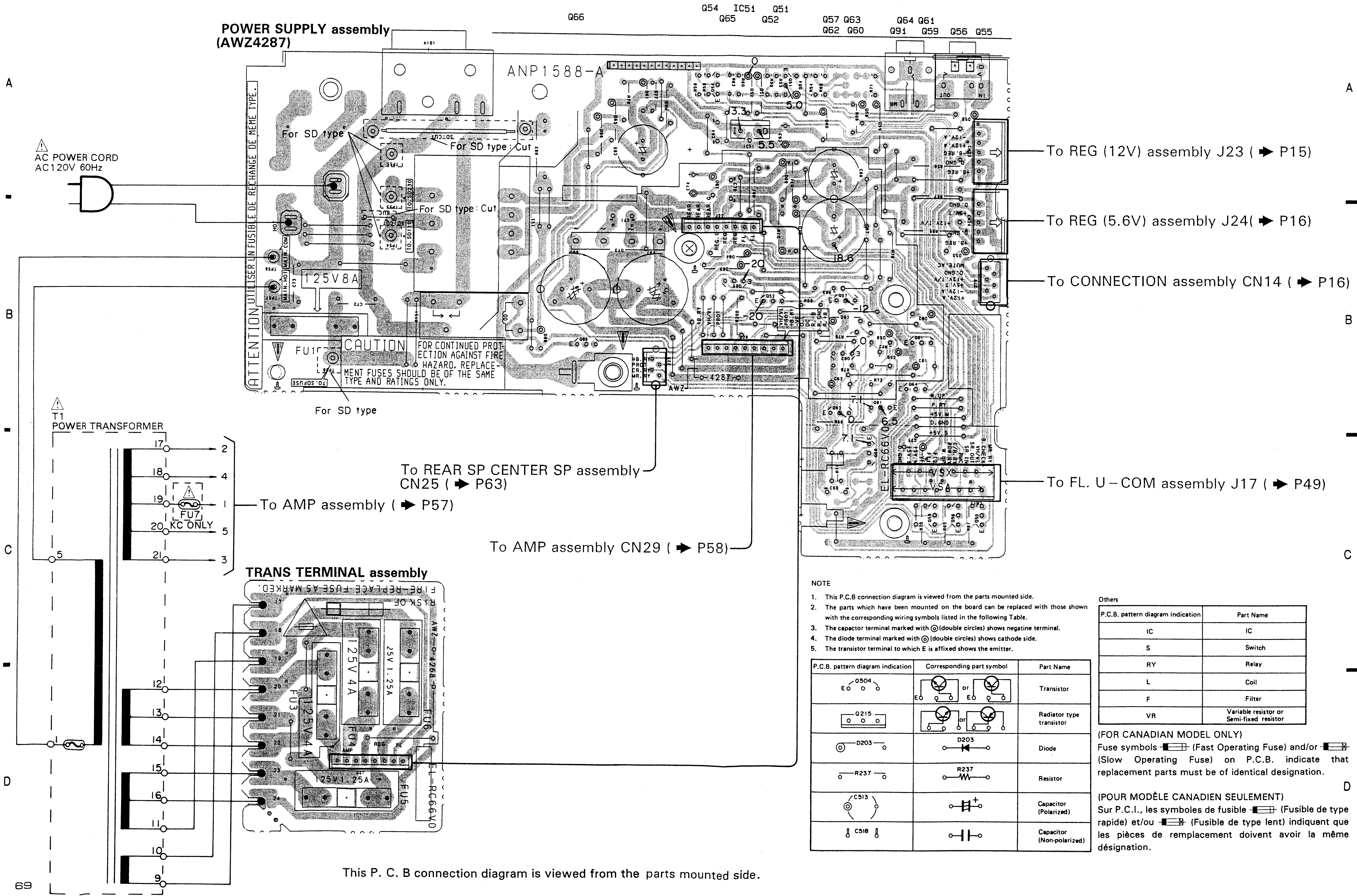

FRONT SP assembly
REAR SP CENTER SP assembly (AWZ4288)
SP SW assembly (AWZ4289)
PRE OUT assembly (AWZ4272)
To AMP assembly J20 ( ➡ P58)
To AMP assembly J21 ( ➡ P57)
To POWER SUPPLY assembly J25 ( ➡ P69)

This P. C. B. connection diagram is viewed from the foil side.

## 5.11 POWER SUPPLY ASSEMBLY AND TRANS TERMINAL ASSEMBLY


POWER SUPPLY assembly
(AWZ4287)
ANP1588-A
Q51 IC51 Q54
Q52 Q65 Q66
Q64 Q61 Q57 Q63
Q55 Q56 Q59 Q91 Q60 Q62
To REG (12V) assembly J23 ( ➡ P15)
To REG (5.6V) assembly J24 ( ➡ P16)
To CONNECTION assembly CN14 ( ➡ P16)
To FL. U-COM assembly J17 ( ➡ P49)
To REAR SP CENTER SP assembly
CN25 ( ➡ P63)
To AMP assembly ( ➡ P57)
To AMP assembly CN29 ( ➡ P58)
AC POWER CORD
AC120V 60Hz
For SD type
For SD type : Cut
For SD type : Cut
For SD type
CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.
ATTENTION
UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE.
125V8A
FU1
SWA
T1
POWER TRANSFORMER
17 18 19 20 21
2 4 1 5 3
FU2
KC ONLY
5
12 13 14 15 16 11 10 9
1
TRANS TERMINAL assembly
FIRE-REPLACE FUSE AS MARKED
RISK OF
125V 1.25A
125V 4A
125V 2A
125V 1.25A
FU3 FU4 FU5 FU6
A B C D
1

This P. C. B. connection diagram is viewed from the foil side.


POWER SUPPLY assembly
(AWZ4287)
ANP1588-A
Q66
Q54 IC51 Q51
Q65 Q52
Q57 Q63
Q62 Q60
Q64 Q61
Q91 Q59
Q56 Q55
AC POWER CORD
AC120V 60Hz
For SD type
For SD type : Cut
For SD type : Cut
125V8A
FU1
CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.
ATTENTION UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE.
For SD type
To REG (12V) assembly J23 ( ➡ P15)
To REG (5.6V) assembly J24( ➡ P16)
To CONNECTION assembly CN14 ( ➡ P16)
To FL. U-COM assembly J17 ( ➡ P49)
To REAR SP CENTER SP assembly CN25 ( ➡ P63)
To AMP assembly CN29 ( ➡ P58)
T1
POWER TRANSFORMER
17
18
19
20
21
12
13
14
15
16
11
10
9
FU7
KC ONLY
To AMP assembly ( ➡ P57)
TRANS TERMINAL assembly
FIRE-REPLACE FUSE AS MARKED.
RISK OF
125V 4A
25V 1.25A
125V 4A
FU3
FU4
FU6
125V 1.25A
FU5
AWZ-4268
EL-RC66V0
EL-RC66V0
-4287
AWZ

This P. C. B connection diagram is viewed from the parts mounted side.

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.
3. The capactor terminal marked with ◎(double circles) shows negatine terminal.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

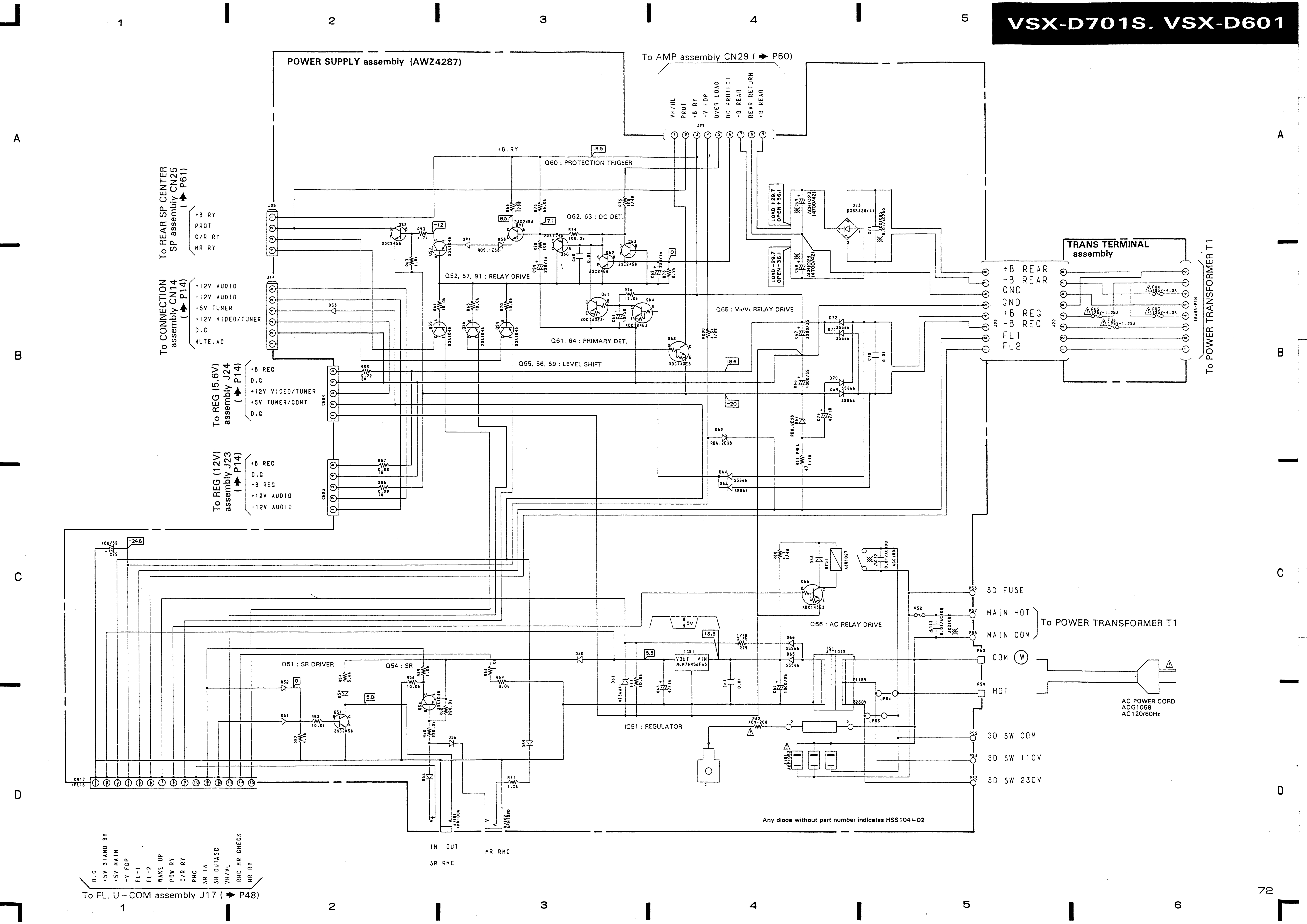
| P.C.B. pattern diagram indication | Corresponding part symbol | Part Name |
|---|---|---|
| Q504 E○ ○ ○ | E○ ○ ○ or E○ ○ ○ | Transistor |
| Q215 ○ ○ ○ | ○ ○ ○ or ○ ○ ○ | Radiator type transistor |
| ◎ D203 ○ | D203 ○—▶|—○ | Diode |
| ○ R237 ○ | R237 ○—W—○ | Resistor |
| ◎ C513 ○ | ○—\|⊢+—○ | Capacitor (Polarized) |
| C518 | ○—\|\|—○ | Capacitor (Non-polarized) |

Others

| P.C.B. pattern diagram indication | Part Name |
|---|---|
| IC | IC |
| S | Switch |
| RY | Relay |
| L | Coil |
| F | Filter |
| VR | Variable resistor or Semi-fixed resistor |

(FOR CANADIAN MODEL ONLY)
Fuse symbols -■⊟- (Fast Operating Fuse) and/or -■⊠- (Slow Operating Fuse) on P.C.B. indicate that replacement parts must be of identical designation.

(POUR MODÈLE CANADIEN SEULEMENT)
Sur P.C.I., les symboles de fusible -■⊟- (Fusible de type rapide) et/ou -■⊠- (Fusible de type lent) indiquent que les pièces de remplacement doivent avoir la même désignation.


1
2
3
4
5
6
A
B
C
D
POWER SUPPLY assembly (AWZ4287)
To AMP assembly CN29 ( ➔ P60)
J29
VH/HL
PROT
+B RY
-V FDP
OVER LOAD
DC PROTECT
-B REAR
REAR RETURN
+B REAR
+B.RY
18.5
Q60 : PROTECTION TRIGEER
6.5
7.1
Q62, 63 : DC DET.
R66
R73
68.0k
R75
100
1/4W
Q91
2SC2458
D58
RD5.1ESB
R74
100.0k
2SA1145
Q60
Q62
Q63
2SC2458
R72
100
C59
220/16
C60
0.01
C62
220/16
R78
2.2k
0
Q52
2SC2458
R93
4.7k
-12
D91
R05.1E3B
2SA1048
R63
1.0k
Q52, 57, 91 : RELAY DRIVE
R61
R65
R70
10.0k
Q55
Q56
Q59
2SA1048
Q61
XDC143ES
R76
12.0k
Q64
XDC124ES
C61
10/50
Q61, 64 : PRIMARY DET.
Q65 : VH/VL RELAY DRIVE
Q65
XDC143ES
R200
4.3k
1/2W
Q55, 56, 59 : LEVEL SHIFT
18.6
-20
To REAR SP CENTER SP assembly CN25 ( ➔ P61)
J25
+B RY
PROT
C/R RY
MR RY
To CONNECTION assembly CN14 ( ➔ P14)
J14
+12V AUDIO
-12V AUDIO
+5V TUNER
+12V VIDEO/TUNER
D.G
MUTE.AC
D53
To REG (5.6V) assembly J24 ( ➔ P14)
CN24
+B REG
D.G
+12V VIDEO/TUNER
+5V TUNER/CONT
D.G
R55
0.22
2W
To REG (12V) assembly J23 ( ➔ P14)
CN23
+B REG
D.G
-B REG
+12V AUDIO
-12V AUDIO
R57
0.22
1W
R56
0.22
1W
LOAD +29.7
OPEN +36.1
LOAD -29.7
OPEN -36.1
C69
C68
ACH1023
(4700/42)
D73
D3SBA20(A)
C71
ACG1005
0.01/AC250
C67
2200/35
D72
D71
SS566
C70
0.01
C66
1000/35
D70
D69
SS566
D67
RD6.2ESB
C74
47/10
R81
47
1/4W
D62
RD6.2ESB
D64
D63
SS566
J22
+B REAR
-B REAR
GND
GND
+B REG
-B REG
FL1
FL2
TRANS TERMINAL assembly
FU4
125V-4.0A
FU5
125V-1.25A
FU3
125V-4.0A
FU6
125V-1.25A
TRANS-PIN
To POWER TRANSFORMER T1
R80
4.7
1/4W
D68
RY51
ASR1027
Q66
XDC143ES
C72
0.01/AC400
ACG1002
Q66 : AC RELAY DRIVE
P52
C73
0.01/AC400
ACG1002
P58
SD FUSE
P57
MAIN HOT
P56
MAIN COM
To POWER TRANSFORMER T1
P60
COM
W
P59
HOT
AC POWER CORD
ADG1058
AC120/60Hz
P55
SD SW COM
P54
SD SW 110V
P53
SD SW 230V
T51
ATT1015
115V
230V
JP54
JP55
R82
ACN-208
A101
AKP1053
5V
13.3
1/4W
3.3k
R79
D66
D65
SS566
IC51
VOUT VIN
NJM78M56FAS
5.5
D60
D61
HZ36A11
R77
10.0k
C63
47/16
C64
0.01
C65
1000/25
IC51 : REGULATOR
100/35
C75
-24.6
Q51 : SR DRIVER
D52
0
D51
R53
10.0k
R52
4.7k
Q51
2SC2458
R54
5.6k
D54
5.0
Q54 : SR
R58
10.0k
R59
1.0k
Q54
2SA1048
R62
220.0k
R60
220.0k
D56
R68
R69
10.0k
D59
D55
R71
1.3k
HJ101
AKN1006
HJ102
AKN1020
IN OUT
SR RMC
MR RMC
CN17
KPE15
D.G
+5V STAND BY
+5V MAIN
-V FDP
FL-1
FL-2
WAKE UP
POW RY
C/R RY
RMC
SR IN
SR OUTASC
VH/VL
RMC MR CHECK
MR RY
To FL. U-COM assembly J17 ( ➔ P48)

Any diode without part number indicates HSS104-02

# 6. PCB PARTS LIST

*NOTES:*
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

  *Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).*

  *560Ω → 56 × 10¹ → 561 ........................ RD1/8PM 5⃞ 6⃞ 1⃞ J*
  *47kΩ → 47 × 10³ → 473 ........................ RD1/4PS 4⃞ 7⃞ 3⃞ J*
  *0.5Ω → 0R5 .............................................. RN2H 0⃞ R⃞ 5⃞ K*
  *1Ω → 010 ................................................ RS1P 0⃞ 1⃞ 0⃞ K*

  *Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).*

  *5.62kΩ → 562 × 10¹ → 5621 ...................... RN1/4PC 5⃞ 6⃞ 2⃞ 1⃞ F*

## LIST OF ASSEMBLIES

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| ◉ | | TUNER ASSEMBLY | AWE1140 |
| NSP | | FRONT SP ASSEMBLY | AWZ4257 |
| NSP | | TRANS TERMINAL ASSEMBLY | AWZ4268 |
| ◉ | | AMP ASSEMBLY | AWZ4286 |
| ◉ | | POWER SUPPLY ASSEMBLY | AWZ4287 |
| ◉ | | REAR SP CENTER SP ASSEMBLY | AWZ4288 |
| ◉ | | SP SW ASSEMBLY | AWZ4289 |
| ◉ | | AUDIO FUNCTION ASSEMBLY | AWZ4263 |
| ◉ | | REG (12V) ASSEMBLY | AWZ4266 |
| ◉ | | REG (5.6V) ASSEMBLY | AWZ4267 |
| ◉ | | PRE OUT ASSEMBLY | AWZ4272 |
| ◉ | | A/V FUNCTION ASSEMBLY | AWZ4290 |
| ◉ | | CONNECTION ASSEMBLY | AWZ4291 |
| ◉ | | VOLUME ASSEMBLY | AWZ4292 |
| ◉ | | FL. U-COM ASSEMBLY | AWK1548 |
| ◉ | | DSP ASSEMBLY | AWZ4294 |
| ◉ | | OSD ASSEMBLY | AWZ4295 |

## TUNER ASSEMBLY

### SEMICONDUCTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | IC431 | AM/FM IC | LA1265S |
| | IC451 | MPX IC | AN7470P |
| | IC471 | PLL IC | LM7001 |
| | Q401 | MOS-FET | 2SK241 |
| | Q402 | TRANSISTOR | 2SC2786 |
| | Q403 | TRANSISTOR | 2SC2668 |
| | Q405 | N-FET | 2SK161 |
| | Q421 | TRANSISTOR | 2SC2668 |
| | Q451 | TRANSISTOR | 2SC2603 |
| | Q452, 453 | TRANSISTOR | 2SC1740S |
| | Q454 | TRANSISTOR | 2SA933S |
| | Q471 | N-FET | 2SK246 |
| | Q472 | TRANSISTOR | 2SC1740SLN |
| | Q473, 474 | TRANSISTOR | RN2201 |
| | D401−403 | VARI-CAP DIODE | 1SV147 |
| | D431−435 | DIODE | 1SS252 |

### COILS & TRANSFORMER

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | F421 | CERAMIC FILTER | ATF-107 |
| | F422 | CERAMIC FILTER | ATF-119 |
| | F431 | CERAMIC FILTER | ATF-208 |
| | L401 | COIL | ATC1001 |
| | L402 | COIL | ATC1002 |
| | L403 | COIL | ATC1004 |
| | L404 | COIL | ATC1005 |
| | L405 | COIL | ATC1003 |
| | L406, 407 | AXIAL INDUCTOR | LAU2R2M |
| | L431 | COIL | ATE-079 |
| | T402 | IF TRANSFORMER | ATE-063 |

### CAPACITORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | C400 | CERAMIC CAPACITOR | CKDYF102Z50 |
| | C401 | CERAMIC CAPACITOR | CCDRH330J50 |
| | C402 | CERAMIC CAPACITOR | CCDRH390J50 |
| | C403 | CERAMIC CAPACITOR | CKPUYY103N16 |
| | C404, 405 | CERAMIC CAPACITOR | CCDRH330J50 |
| | C406 | CERAMIC CAPACITOR | CCDCH020C50 |
| | C409 | CERAMIC CAPACITOR | CKPUYB101K50 |
| | C410−412 | CERAMIC CAPACITOR | CKPUYY103N16 |
| | C413 | CERAMIC CAPACITOR | CCDCH150J50 |
| | C414 | CERAMIC CAPACITOR | CCDCH330J50 |
| | C415 | CERAMIC CAPACITOR | CCDCH080D50 |
| | C416 | CERAMIC CAPACITOR | CCDTH180J50 |
| | C417 | CERAMIC CAPACITOR | CCDCH010C50 |
| | C418, 419 | CERAMIC CAPACITOR | CKPUYY103N16 |
| | C420 | ELECT. CAPACITOR | CEAS100M50 |
| | C421, 422 | CERAMIC CAPACITOR | CKPUYY103N16 |
| | C433 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C435 | CERAMIC CAPACITOR | CKCYF472Z50 |
| | C436 | CERAMIC CAPACITOR | CKCYX683M25 |
| | C437 | ELECT. CAPACITOR | CEAS100M50 |
| | C438 | ELECT. CAPACITOR | CEAS2R2M50 |
| | C439, 440 | CERAMIC CAPACITOR | CKCYF223Z50 |
| | C441 | AXIAL CAPACITOR | CKPUYF223Z25 |
| | C442 | ELECT. CAPACITOR | CEAS0R1M50 |
| | C443 | ELECT. CAPACITOR | CEAS3R3M50 |
| | C444 | CERAMIC CAPACITOR | CKPUYB331K50 |
| | C445 | AXIAL CAPACITOR | CCPUSL470J50 |
| | C446, 447 | MYLAR FILM CAPACITOR | CQMA561K50 |
| | C451 | ELECT. CAPACITOR | CEAS101M16 |
| | C452 | ELECT. CAPACITOR | CEANP4R7M35 |
| | C453 | CERAMIC CAPACITOR | CKCYF473Z50 |
| | C454 | CAPACITOR (470p) | ACE1039 |
| | C455 | ELECT. CAPACITOR | CEAS3R3M50 |
| | C456 | ELECT. CAPACITOR | CEAS1R5M50 |
| | C457 | ELECT. CAPACITOR | CEASR22M50 |
| | C458 | ELECT. CAPACITOR | CEAS470M16 |
| | C459, 460 | MYLAR FILM CAPACITOR | CQMA102J50 |
| | C461, 462 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C463, 464 | ELECT. CAPACITOR | CEAS470M16 |
| | C465 | CERAMIC CAPACITOR | CKPUYY103N16 |
| | C466 | CERAMIC CAPACITOR | CCCSL121J50 |
| | C468, 469 | MYLAR FILM CAPACITOR | CQMA182J50 |
| | C471 | CERAMIC CAPACITOR | CKPUYY103N16 |
| | C472 | AXIAL CAPACITOR | CKPUYF223Z25 |
| | C473 | CERAMIC CAPACITOR | CKPUYY103N16 |
| | C475 | ELECT. CAPACITOR | CEAS100M50 |
| | C476 | CERAMIC CAPACITOR | CKPUYY103N16 |
| | C477 | CERAMIC CAPACITOR | CKCYF103Z50 |
| | C478 | AUDIO FILM CAPACITOR | CFTXA224J50 |
| | C479 | AXIAL CAPACITOR | CCPUSL220J50 |
| | C480 | CERAMIC CAPACITOR | CKPUYY103N16 |
| | C481, 482 | CERAMIC CAPACITOR | CCDCH150J50 |
| | C483 | CERAMIC CAPACITOR | CKPUYB101K50 |
| | C484 | ELECT. CAPACITOR | CEAS470M16 |
| | C485 | CERAMIC CAPACITOR | CKPUYY103N16 |

### RESISTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | VR431 | VR (10k) | ACP1025 |
| | VR432 | VR | VRTS6VS153 |
| | VR451 | VR (4.7k) | ACP1024 |
| | | Other resistors | RD1/8PM☐☐☐J |

### OTHERS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | | ANTENNA TERMINAL 4-P | AKA1014 |
| | | AM RF TUNING BLOCK | AXX1011 |
| | X431 | CERAMIC FILTER (450kHz) | ATF-125 |
| | X471 | CRYSTAL RESONATOR (7.2MHz) | ASS1005 |

## FRONT SP ASSEMBLY

### OTHERS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | | SPEAKER TERMINAL 8-P | AKE-111 |

## TRANS TERMINAL ASSEMBLY

TRANS TERMINAL assembly has no service parts

## AMP ASSEMBLY

### SEMICONDUCTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | IC161, 162 | PREDRIVER-IC | UPC1270H |
| | Q101, 102 | TRANSISTOR | 2SC1845 |
| | Q103, 104 | DUAL TRANSISTOR | 2SA1240 |
| | Q105, 106 | TRANSISTOR | 2SA970 |
| | Q107, 108 | TRANSISTOR | 2SA1145 |
| | Q109, 110 | TRANSISTOR | 2SC2705 |
| | Q111, 112 | TRANSISTOR | 2SC2603 |
| | Q113, 114 | TRANSISTOR | 2SC3298 |
| | Q115, 116 | TRANSISTOR | 2SA1306 |
| | Q117, 118 | TRANSISTOR | 2SC2240 |
| | Q161−164 | TRANSISTOR | 2SC2458 |
| | Q201 | DUAL TRANSISTOR | 2SA1240 |
| | Q202 | TRANSISTOR | 2SC2705 |
| | Q203 | TRANSISTOR | 2SC2603 |
| | Q204 | TRANSISTOR | 2SA1306 |
| | Q205 | TRANSISTOR | 2SC3298 |
| | Q206 | TRANSISTOR | 2SC2240 |
| | D101−108 | DIODE | HSS104-02 |
| | D109, 110 | ZENER DIODE | RD10ESB |
| | D111−114 | DIODE | HSS104-02 |
| | D115, 116 | ZENER DIODE | RD10ESB |
| | D117−122 | DIODE | HSS104-02 |
| | D161−166 | DIODE | HSS104-02 |
| | D197, 198 | DIODE | D5SB20F |
| | D199, 200 | DIODE | HSS104-02 |
| | D201 | ZENER DIODE | RD10ESB |
| | D202, 203 | ZENER DIODE | RD4.3ESB |
| | D204−206 | DIODE | HSS104-02 |

### RELAIES

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | RY198 | RELAY | ASR1035 |
| | RY199 | RELAY | ASR-112 |

### COILS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | L102−104 | COIL | ATH1004 |

### CAPACITORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | C101, 102 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C103, 104 | CERAMIC CAPACITOR | CKCYB122K50 |
| | C105−108 | CERAMIC CAPACITOR | CCCSL101J50 |

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | C109, 110 | CERAMIC CAPACITOR | CCCSL220K500 |
| | C111, 112 | ELECT. CAPACITOR | CEAS470M16 |
| | C113, 114 | CERAMIC CAPACITOR | CCCSL050C500 |
| | C115, 116 | CERAMIC CAPACITOR | CKCYB102K50 |
| | C117−120 | CERAMIC CAPACITOR | CCCSL151K500 |
| | C121, 122 | AUDIO FILM CAPACITOR | CFTXA473J50 |
| | C123, 124 | ELECT. CAPACITOR | CEANP010M100 |
| | C125, 126 | CERAMIC CAPACITOR | CKCYB222K50 |
| | C161 | ELECT. CAPACITOR | CEAS2R2M50 |
| | C162 | ELECT. CAPACITOR | CEHAQ2R2M50 |
| | C165, 166 | CERAMIC CAPACITOR | CKCYB222K50 |
| | C167, 168 | ELECT. CAPACITOR | CEHAQ101M10 |
| | C169, 170 | CERAMIC CAPACITOR | CCCSL680J50 |
| | C171, 172 | CERAMIC CAPACITOR | CKCYX333M25 |
| | C173, 174 | ELECT. CAPACITOR | CEAS100M100 |
| | C175, 176 | ELECT. CAPACITOR | CEANP2R2M50 |
| | C198 | ELECT. CAPACITOR (8200/71V) | ACH1224 |
| | C199 | ELECT. CAPACITOR (8200/71V) | ACH1225 |
| | C200 | CKA (0.01/AC150V) | ACG1005 |
| | C201 | ELECT. CAPACITOR | CEAS2R2M50 |
| | C202 | CERAMIC CAPACITOR | CKCYB222K50 |
| | C203 | ELECT. CAPACITOR | CEAS2R2M50 |
| | C204, 205 | CERAMIC CAPACITOR | CCCSL470J50 |
| | C206 | CERAMIC CAPACITOR | CKCYB102K50 |
| | C207 | CERAMIC CAPACITOR | CCCSL560K500 |
| | C208 | ELECT. CAPACITOR | CEAS470M16 |
| | C209 | ELECT. CAPACITOR | CEAS470M25 |
| | C210 | AUDIO FILM CAPACITOR | CFTXA473J50 |
| | C211 | ELECT. CAPACITOR | CEANP2R2M50 |
| | C212 | CERAMIC CAPACITOR | CCCSL101K500 |
| | C213 | CERAMIC CAPACITOR | CKCYB102K50 |
| | C222 | CERAMIC CAPACITOR | CCCSL101K500 |

RESISTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | R111−114 | FUSIBLE RESISTOR | RFA1/4PS391J |
| | R115, 116 | CARBON FILM RESISTER | RD1/4PM152J |
| | R117, 118 | CARBON FILM RESISTOR | RD1/4PM473J |
| | R121, 122 | CARBON FILM RESISTOR | RD1/4PMF680J |
| | R127, 128 | FUSIBLE RESISTOR | RFA1/4PS470J |
| | R129−136 | CARBON FILM RESISTOR | RD1/4PMF101J |
| | R137, 138 | FUSIBLE RESISTOR | RFA1/4PS4R7J |
| | R139−142 | CARBON FILM RESISTOR | RD1/4PMF4R7J |
| | R143, 144 | FUSIBLE RESISTOR | RFA1/4PS4R7J |
| | R145, 146 | RESISTOR (0.33, 5W) | ACN1087 |
| | R147, 148 | CARBON FILM RESISTOR | RD1/4PMF100J |
| | R151, 152 | METAL OXIDE RESISTOR | RS1LMF100J |
| | R153−156 | CARBON FILM RESISTOR | RD1/4PMF222J |
| | R177, 178 | RESISTOR (0.22, 2W) | ACN−131 |
| | R179−182 | CARBON FILM RESISTOR | RD1/4PMF222J |
| | R197 | METAL OXIDE RESISTOR | RS2LMF103J |
| | R198, 199 | METAL OXIDE RESISTOR | RS1PMF681J |
| | R207 | CARBON FILM RESISTOR | RD1/4PM431J |
| | R208 | CARBON FILM RESISTOR | RD1/4PM123J |
| | R210 | CARBON FILM RESISTOR | RD1/4PMF470J |
| | R214−217 | CARBON FILM RESISTOR | RD1/4PMF101J |
| | R218 | RESISTOR (0.33, 5W) | ACN1087 |
| | R220 | CARBON FILM RESISTOR | RD1/4PMF100J |
| | R221, 222 | CARBON FILM RESISTOR | RD1/4PMF222J |
| | R225 | CARBON FILM RESISTOR | RD1/4PMF100J |
| | R227−232 | FUSIBLE RESISTOR | RFA1/4PS4R7J |
| | R233, 234 | CARBON FILM RESISTOR | RD1/4PMF4R7J |
| | | Other resistors | RD1/8PM□□□J |

OTHERS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | | SCREW (STEEL) | ABA1009 |
| | CN29 | CONNECTOR (9P) | KPC9 |

## POWER SUPPLY ASSEMBLY

SEMICONDUCTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | IC51 | REGULATOR IC | NJM78M56FAS |
| | Q51, 52 | TRANSISTOR | 2SC2458 |
| | Q54−57 | TRANSISTOR | 2SA1048 |
| | Q59 | TRANSISTOR | 2SA1048 |
| | Q60 | TRANSISTOR | 2SA1145 |
| | Q61 | TRANSISTOR | XDC143ES |
| | Q62, 63 | TRANSISTOR | 2SC2458 |
| | Q64 | TRANSISTOR | XDC124ES |
| | Q65, 66 | TRANSISTOR | XDC143ES |
| | Q91 | TRANSISTOR | 2SC2458 |
| | D51−56 | DIODE | HSS104-02 |
| | D58 | ZENER DIODE | RD5.1ESB |
| | D59, 60 | DIODE | HSS104-02 |
| | D61 | ZENER DIODE | HZS6A1L |
| | D62 | ZENER DIODE | RD6.2ESB |
| | D63−66 | DIODE | S5566 |
| | D67 | ZENER DIODE | RD8.2ESB |
| | D68 | DIODE | HSS104-02 |
| | D69−72 | DIODE | S5566 |
| | D73 | DIODE | D3SBA20 (A) |
| | D91 | DIODE | HSS104-02 |

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| RELAY | | | |
| | RY51 | RELAY | ASR1027 |
| TRANSFORMER | | | |
| ⚠ | T51 | POWER TRANSFORMER | ATT1015 |
| CAPACITORS | | | |
| | C59 | ELECT. CAPACITOR | CEAS221M16 |
| | C60 | CERAMIC CAPACITOR | CKCYB103K50 |
| | C61 | ELECT. CAPACITOR | CEAS100M50 |
| | C62 | ELECT. CAPACITOR | CEAS221M16 |
| | C63 | ELECT. CAPACITOR | CEAS470M16 |
| | C64 | CERAMIC CAPACITOR | CKCYB103K50 |
| | C65 | ELECT. CAPACITOR | CEAS102M25 |
| | C66 | ELECT. CAPACITOR | CEAS102M35 |
| | C67 | ELECT. CAPACITOR | CEAS222M35 |
| | C68, 69 | CEA (4700/42V) | ACH1203 |
| | C70 | CERAMIC CAPACITOR | CKCYB103K50 |
| | C71 | CKA (0.01/AC150V) | ACG1005 |
| ⚠ | C72, 73 | CKA (0.01/AC125V) | ACG1002 |
| | C74 | ELECT. CAPACITOR | CEAS470M10 |
| | C75 | ELECT. CAPACITOR | CEAS101M35 |
| RESISTORS | | | |
| | R200 | CARBON FILM RESISTOR | RD1/2PM432J |
| | R55 | METAL OXIDE RESISTOR | RS2LMFR22J |
| | R56, 57 | METAL OXIDE RESISTOR | RS1LMFR22J |
| | R66 | CARBON FILM RESISTOR | RD1/2PM132J |
| | R75 | CARBON FILM RESISTOR | RD1/4PMF101J |
| | R79 | CARBON FILM RESISTOR | RD1/4PM332J |
| | R80 | CARBON FILM RESISTOR | RD1/4PMF4R7J |
| | R81 | CARBON FILM RESISTOR | RD1/4PMFL470J |
| ⚠ | R82 | RESISTOR (2.2M , 1/2W) | ACN-208 |
| | | Other resistors | RD1/8PM☐☐☐J |
| OTHERS | | | |
| | CN17 | CONNECTOR (15P) | KPE15 |
| | | JACK 2P (CONTROL) | AKN1006 |
| | | JACK (REMOTE) | AKN1020 |
| ⚠ | | AC OUTLET (3P) | AKP1053 |

## REAR SP CENTER SP ASSEMBLY

| | | | |
|---|---|---|---|
| SEMICONDUCTORS | | | |
| | Q251, 252 | TRANSISTOR | XDC143ES |
| | D251, 252 | DIODE | HSS104-02 |

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| RELAIES | | | |
| | RY251, 252 | RELAY | ASR1035 |
| COILS | | | |
| | L251, 252 | COIL | ATH1004 |
| CAPACITORS | | | |
| | C253, 254 | AUDIO FILM CAPACITOR | CFTXA473J50 |
| RESISTORS | | | |
| | R255-258 | CARBON FILM RESISTOR | RD1/4PMF100J |
| | R259, 260 | METAL OXIDE RESISTOR | RS1LMF681J |
| | | Other resistors | RD1/8PM☐☐☐J |
| OTHERS | | | |
| | | SPEAKER TERMINAL 4-P | AKE-109 |
| | CN | SPEAKER TERMINAL 2-P | AKE1032 |
| | CN25 | CONNECTOR (4P) | KPE4 |
| | | PIN JACK 3P (CENTER AMP) | AKB1120 |

## SP SW ASSEMBLY

| | | | |
|---|---|---|---|
| SWITCHE | | | |
| | S | PUSH SWITCH | SUJ6LYXS |
| RESISTORS | | | |
| | R252, 253 | METAL OXIDE RESISTOR | RS2LMF331J |
| OTHERS | | | |
| | CN20 | JUMPER CONNECTOR | KPC6 |
| | | JACK (H. PHONE) | AKN1002 |

## AUDIO FUNCTION ASSEMBLY

| | | | |
|---|---|---|---|
| SEMICONDUCTORS | | | |
| | IC801 | OP-AMP-IC | M5220P |
| | IC802 | E-SW IC | TC9164N |
| | IC803 | OP-AMP IC | NJM4558DXP |
| CAPACITORS | | | |
| | C801, 802 | ELECT. CAPACITOR | CEAS100M50 |
| | C805, 806 | CHIP CERAMIC C. | CCSQCH221J50 |
| | C807, 808 | CHIP CAPACITOR | CCSQSL101J50 |
| | C809, 810 | ELECT. CAPACITOR | CEAS470M16 |
| | C811, 812 | MYLAR FILM CAPACITOR | CQMA822J50 |
| | C813, 814 | MYLAR FILM CAPACITOR | CQMA242J50 |

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | C815, 816 | ELECT. CAPACITOR | CEAS2R2M50 |
|  | C817, 818 | CHIP CAPACITOR | CKSQYF103Z50 |
|  | C819, 820 | ELECT. CAPACITOR | CEAS101M16 |
|  | C841, 842 | ELECT. CAPACITOR | CEAS2R2M50 |
|  | C843, 844 | CHIP CAPACITOR | CKSQYF103Z50 |
|  | C845, 846 | ELECT. CAPACITOR | CEAS4R7M50 |
|  | C847 | CHIP CERAMIC C. | CCSQCH471J50 |

RESISTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  |  | All resistors | RS1/10S□□□J |

OTHERS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | CN11 | CONNECTOR (7P) | KPE7 |
|  | CN | PIN JACK 4P (TAPE1, 2) | AKB1181 |
|  | CN | PIN JACK 4P (CD, PHONO) | AKB1201 |

## REG (12V) ASSEMBLY

SEMICONDUCTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | IC54 | REGULATOR IC | NJM78M12FAS |
|  | IC55 | REGULATOR IC | NJM79M12FA |

CAPACITORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | C52, 53 | ELECT. CAPACITOR | CEAS101M35 |
|  | C56, 57 | CERAMIC CAPACITOR | CKCYF103Z50 |

## REG (5.6V) ASSEMBLY

SEMICONDUCTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | IC52 | REGULATOR IC | M5237L |
|  | IC53 | REGULATOR IC | NJM78M56FAS |
|  | Q51 | TRANSISTOR | 2SA1306 |

CAPACITORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | C51 | ELECT. CAPACITOR | CEAS470M16 |
|  | C54 | CERAMIC CAPACITOR | CKCYF103Z50 |
|  | C55 | ELECT. CAPACITOR | CEAS101M35 |
|  | C58 | CERAMIC CAPACITOR | CKCYX104M25 |
|  | C76 | ELECT. CAPACITOR | CEAS010M50 |

RESISTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | R51 | METAL OXIDE RESISTOR | RS1LMF100J |
|  | R83 | CARBON FILM RESISTOR | RD1/4PMF221J |
|  | R84 | CARBON FILM RESISTOR | RD1/4PM363J |
|  | R85 | CARBON FILM RESISTOR | RD1/8PM432J |

## PRE OUT ASSEMBLY

RESISTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | R591–594 | CARBON FILM RESISTOR | RD1/8PM□□□J |

OTHERS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | CN | PIN JACK 2P (FRONT AMP) | AKB1171 |

## A/V FUNCTION ASSEMBLY

SEMICONDUCTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | IC851 | E-SW IC | TC9163N |
|  | IC881 | VIDEO SWITCH | LA7951 |
|  | IC882 | E-SW IC | NJM2233BS |
|  | Q881, 882 | TRANSISTOR | 2SC2458 |
|  | D851, 852 | DIODE (SMD) | 1SS352 |

CAPACITORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | C871, 872 | CERAMIC CAPACITOR | CKSQYB103K50 |
|  | C873 | CHIP CERAMIC C. | CCSQCH471J50 |
|  | C881–885 | ELECT. CAPACITOR | CEAS470M16 |
|  | C886 | ELECT. CAPACITOR | CEAS101M16 |
|  | C887 | CERAMIC CAPACITOR | CKSQYB103K50 |
|  | C889, 890 | ELECT. CAPACITOR | CEAS471M6 |
|  | C891 | ELECT. CAPACITOR | CEAS101M16 |
|  | C892, 893 | ELECT. CAPACITOR | CEAS470M16 |
|  | C896, 897 | ELECT. CAPACITOR | CEAS101M16 |
|  | C898–900 | CERAMIC CAPACITOR | CKSQYB103K50 |

RESISTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | R890, 894 | CARBON FILM RESISTOR | RD1/2PM151J |
|  | R912 | CARBON FILM RESISTOR | RD1/8PM100J |
|  |  | Other resistors | RS1/10S□□□J |

OTHERS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  |  | PIN JACK 3P (VCR1, 2, LD, TV) | AKB1102 |

## CONNECTION ASSEMBLY

SEMICONDUCTOR

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | IC304 | OP AMP | M5238PF |

CAPACITORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | C315 | ELECT. CAPACITOR | CEAS470M16 |
|  | C316 | ELECT. CAPACITOR | CEAS470M10 |
|  | C318 | CERAMIC CAPACITOR | CKSQYF473Z50 |
|  | C321, 322 | ELECT. CAPACITOR | CEAS4R7M50 |
|  | C323, 324 | ELECT. CAPACITOR | CEAS101M25 |
|  | C325, 326 | CHIP CAPACITOR | CCSQCH331J50 |

RESISTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
|  | R340, 341 | CARBON FILM RESISTOR | RD1/8PM100J |
|  |  | Other resistors | RS1/10S□□□J |

### OTHERS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | CN14 | CONNECTOR (6P) | KPE6 |
| | CN15 | CONNECTOR (15P) | KPE15 |

## VOLUME ASSEMBLY

### SEMICONDUCTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | IC501, 502 | OP-AMP IC | NJM4558DXP |
| | IC503 | MECHANISM DRIVER IC | TA8409S |
| | IC521 | OP-AMP IC | NJM4558DXP |
| | IC522 | E-VR IC | TC9154AP |
| | IC523 | OP-AMP IC | NJM4558DXP |
| | IC524 | OP-AMP IC | NJM4558LD |
| | IC525 | E-VR IC | TC9154AP |
| | IC561 | OP-AMP IC | M5220L |
| | IC562 | E-VR IC | TC9154AP |
| | IC563 | E-TONE CONTROL IC | TC9184P |
| | IC564 | OP-AMP IC | M5220L |
| | Q501 | TRANSISTOR | XDC124ES |
| | D501, 502 | ZENER DIODE | RD5.1ESB2 |
| | D503, 504 | DIODE | HSS104-02 |
| | D505 | ZENER DIODE | RD5.1ESB2 |
| | D506 | ZENER DIODE | RD3.3ESB2 |
| | D521-526 | DIODE | HSS104-02 |
| | D561-566 | DIODE | HSS104-02 |

### CAPACITORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | C501, 502 | ELECT. CAPACITOR | CEAS470M10 |
| | C503, 504 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C505, 506 | CERAMIC CAPACITOR | CKSQYB103K50 |
| | C507, 508 | CHIP CAPACITOR | CCSQCH331J50 |
| | C509, 510 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C511 | ELECT. CAPACITOR | CEANP101M10 |
| | C512 | ELECT. CAPACITOR | CEAS101M16 |
| | C513 | ELECT. CAPACITOR | CEAS6R8M50 |
| | C514 | CHIP CAPACITOR | CCSQCH101J50 |
| | C515 | ELECT. CAPACITOR | CEASR47M50 |
| | C516 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C521, 522 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C523, 524 | CERAMIC CAPACITOR | CKSQYB103K50 |
| | C525, 526 | CHIP CAPACITOR | CCSQCH470J50 |
| | C527, 528 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C531, 532 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C533, 534 | CERAMIC CAPACITOR | CKSQYB103K50 |
| | C535, 536 | CHIP CAPACITOR | CCSQCH470J50 |
| | C539 | CERAMIC CAPACITOR | CKSQYB471K50 |
| | C540 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C541 | CERAMIC CAPACITOR | CKSQYB103K50 |
| | C542 | CHIP CAPACITOR | CCSQCH470J50 |
| | C543 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C544, 545 | CERAMIC CAPACITOR | CKSQYB103K50 |
| | C546 | CERAMIC CAPACITOR | CKSQYB471K50 |
| | C547 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C548 | CERAMIC CAPACITOR | CKSQYB103K50 |
| | C549 | CHIP CAPACITOR | CCSQCH470J50 |
| | C550-552 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C559, 560 | CHIP CAPACITOR | CCSQCH331J50 |
| | C561, 562 | ELECT. CAPACITOR | CEAS2R2M50 |
| | C563, 564 | CHIP CAPACITOR | CKSQYF103Z50 |
| | C565, 566 | ELECT. CAPACITOR | CEAS010M50 |
| | C567, 568 | CHIP CAPACITOR | CCSQCH121J50 |
| | C569, 570 | ELECT. CAPACITOR | CEAS100M50 |
| | C571, 572 | MYLAR FILM CAPACITOR | CQMA153J50 |
| | C573, 574 | MYLAR FILM CAPACITOR | CQMA823J50 |
| | C575, 576 | MYLAR FILM CAPACITOR | CQMA272J50 |
| | C577, 578 | MYLAR FILM CAPACITOR | CQMA153J50 |
| | C579, 580 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C581, 582 | CHIP CAPACITOR | CKSQYF103Z50 |
| | C585 | CHIP CAPACITOR | CKSQYB102K50 |
| | C586, 587 | CHIP CAPACITOR | CKSQYF103Z50 |

### RESISTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | VR501 | VR (100k) | ACX1075 |
| | R501, 502 | CARBON FILM RESISTOR | RD1/4PM681J |
| | R507 | CARBON FILM RESISTOR | RD1/8PM821J |
| | R517 | CARBON FILM RESISTOR | RD1/2PM470J |
| | | Other resistors | RS1/10S□□□J |

### OTHERS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | CN16 | CONNECTOR (11P) | KPE11 |
| | CN18 | CONNECTOR (9P) | KPE9 |

## FL. U-COM ASSEMBLY

### SEMICONDUCTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | IC601 | CONTROL MCU | PDG084A |
| | Q601-604 | TRANSISTOR | 2SC2458 |
| | Q606 | TRANSISTOR | XDC124ES |
| | D601-603 | DIODE | HSS104-02 |
| | D604 | LED (RED) | AEL1108 |
| | D607-625 | DIODE | HSS104-02 |
| | D628 | DIODE | HSS104-02 |

### SWITCHES

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | S601 | SWITCH | ASG1034 |
| | S603-609 | SWITCH | ASG1034 |
| | S611-660 | SWITCH | ASG1034 |

### COIL

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | L601 | AXIAL INDUCTOR | LAU220K |

### CAPACITORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | C601 | CAPACITOR (47/5.5V) | ACH1135 |
| | C602 | ELECT. CAPACITOR | CEAS100M50 |
| | C603 | CERAMIC CAPACITOR | CKCYX473M25 |
| | C604 | AXIAL CAPACITOR | CKPUYF473Z16 |
| | C605 | ELECT. CAPACITOR | CEAS101M10 |
| | C606 | ELECT. CAPACITOR | CEAS010M50 |
| | C607 | AXIAL CAPACITOR | CKPUYF223Z25 |
| | C608 | ELECT. CAPACITOR | CEAS470M50 |

### RESISTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | | All resistors | RD1/8PM☐☐☐J |

### OTHERS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | | FL SPACER | AEB1120 |
| | | PIN JACK 1P (VIDEO INPUT) | AKB1082 |
| | | REMOTE RECEIVER UNIT | AXX1023 |
| | V601 | FL TUBE | AAV1145 |
| | X602 | CRYSTAL RESONATOR (8MHz) | ASS1015 |

## DSP ASSEMBLY

### SEMICONDUCTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | IC1201 | OP-AMP IC | NJM4558DXP |
| | IC1202 | OP AMP | M5238PF |
| | IC1203 | OP-AMP IC | NJM4558DXP |
| | IC1204 | OP AMP | M5238PF |
| | IC1205 | OP-AMP IC | NJM4558DXP |
| | IC1206 | OP AMP | M5238PF |
| | IC1207, 1208 | OP-AMP IC | NJM4558DXP |
| | IC1209 | OP AMP | M5238PF |
| | IC1210 | E-SW IC | TC9162N |
| | IC1301 | DSP IC | YSS215-F |
| | IC1302 | PSRAM | LH5P832N-10T |
| | IC1303 | REGULATOR IC | NJM78M05FAS |
| | D1271-1275 | DIODE | HSS104-02 |
| | D1301-1305 | DIODE | HSS104-02 |

### COILS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | F1201, 1202 | FILTER | ATF1071 |
| | F1301, 1302 | FILTER | ATF1102 |
| | L1301-1305 | FERRITE BEAD | ATX1008 |

### CAPACITORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | C1201, 1202 | ELECT. CAPACITOR | CEAS100M50 |
| | C1203, 1204 | CHIP CAPACITOR | CCSQCH101J50 |
| | C1205, 1206 | ELECT. CAPACITOR | CEAS100M50 |
| | C1211, 1212 | CHIP CAPACITOR | CCSQCH330J50 |
| | C1213, 1214 | CERAMIC CAPACITOR | CKSQYB272K50 |
| | C1215, 1216 | CHIP CAPACITOR | CCSQCH391J50 |
| | C1217, 1218 | CHIP CAPACITOR | CKSQYB682K50 |
| | C1219, 1220 | ELECT. CAPACITOR | CEAS100M50 |
| | C1221, 1222 | CHIP CAPACITOR | CCSQCH330J50 |
| | C1223, 1224 | CERAMIC CAPACITOR | CKSQYB272K50 |
| | C1225, 1226 | CHIP CAPACITOR | CCSQCH391J50 |
| | C1227, 1228 | CHIP CAPACITOR | CKSQYB682K50 |
| | C1229, 1230 | ELECT. CAPACITOR | CEAS100M50 |
| | C1231 | ELECT. CAPACITOR | CEJA100M35 |
| | C1232 | ELECT. CAPACITOR | CEAS100M50 |
| | C1233, 1234 | CHIP CAPACITOR | CCSQCH101J50 |
| | C1235 | ELECT. CAPACITOR | CEJA220M25 |
| | C1236 | ELECT. CAPACITOR | CEAS220M25 |
| | C1237, 1238 | CHIP CAPACITOR | CCSQCH101J50 |
| | C1239, 1240 | ELECT. CAPACITOR | CEAS220M25 |
| | C1251 | ELECT. CAPACITOR | CEJA100M35 |
| | C1252 | CHIP CAPACITOR | CCSQCH101J50 |
| | C1253 | ELECT. CAPACITOR | CEJA220M25 |
| | C1254 | AUDIO FILM CAPACITOR | CFTXA274J50 |
| | C1255 | ELECT. CAPACITOR | CEANP2R2M50 |
| | C1256 | CHIP CAPACITOR | CCSQCH101J50 |
| | C1257 | ELECT. CAPACITOR | CEAS220M25 |
| | C1271, 1272 | ELECT. CAPACITOR | CEAS100M50 |
| | C1273 | ELECT. CAPACITOR | CEAS101M10 |
| | C1274 | CERAMIC CAPACITOR | CKSQYF104Z50 |
| | C1301 | ELECT. CAPACITOR | CEAS470M10 |
| | C1302 | CHIP CAPACITOR | CKSQYB102K50 |
| | C1303 | CERAMIC CAPACITOR | CKSQYF473Z50 |
| | C1305, 1306 | CHIP CERAMIC C. | CCSQCH300J50 |
| | C1307 | ELECT. CAPACITOR | CEAS4R7M50 |
| | C1308 | CERAMIC CAPACITOR | CKSQYF104Z50 |
| | C1309 | ELECT. CAPACITOR | CEAS470M10 |
| | C1310 | CERAMIC CAPACITOR | CKSQYF473Z50 |
| | C1311 | CHIP CAPACITOR | CKSQYB102K50 |
| | C1312 | ELECT. CAPACITOR | CEAS221M10 |
| | C1313 | CERAMIC CAPACITOR | CKSQYF473Z50 |
| | C1314 | CHIP CAPACITOR | CKSQYB102K50 |
| | C1315, 1316 | PL.STYRENE CAPACITOR | CQSA332J50 |
| | C1317, 1318 | ELECT. CAPACITOR | CEAS101M16 |
| | C1319 | ELECT. CAPACITOR | CEAS470M16 |
| | C1320 | CERAMIC CAPACITOR | CKSQYF473Z50 |
| | C1321 | ELECT. CAPACITOR | CEAS470M16 |
| | C1322 | CERAMIC CAPACITOR | CKSQYF473Z50 |
| | C1323 | CHIP CAPACITOR | CKSQYB102K50 |
| | C1324, 1325 | CHIP CAPACITOR | CKSQYF103Z50 |
| | C1326-1330 | CERAMIC CAPACITOR | CKSQYF473Z50 |
| | C1332-1337 | CERAMIC CAPACITOR | CKSQYF473Z50 |
| | C1338 | CERAMIC CAPACITOR | CKDYB561K50 |

### RESISTORS

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | R1307 | CARBON FILM RESISTOR | RD1/2PMF100J |
| | R1308-1310 | CARBON FILM RESISTOR | RD1/8PM102J |
| | | Other resistors | RS1/10S☐☐☐J |

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| OTHERS | | | |
| | X1301 | CERAMIC RESONATOR (11.2MHz) | ASS1031 |
| **OSD ASSEMBLY** | | | |
| SEMICONDUCTORS | | | |
| | IC1102 | REGULATOR IC | UPC78L05 |
| | IC1104 | TV IC | UPC1377C |
| | IC1105 | OSD IC | M50554-003SP |
| | Q1101 | TRANSISTOR | 2SC2458 |
| | Q1102 | TRANSISTOR | XDA124ES |
| | Q1103 | TRANSISTOR | XDC124ES |
| | Q1104 | TRANSISTOR | XDA124ES |
| | Q1105, 1106 | TRANSISTOR | 2SC2458 |
| | Q1108 | TRANSISTOR | 2SC2712 |
| | Q1109 | TRANSISTOR | 2SA1162 |
| | D1101 | DIODE (SMD) | 1SS352 |
| | D1102 | DIODE | HSS104-02 |
| | D1103 | ZENER DIODE | RD5.1ESB |
| | D1104 | DIODE (SMD) | 1SS352 |
| COILS | | | |
| | L1101 | AXIAL INDUCTOR | LAU390K |
| | L1102 | AXIAL INDUCTOR | LAU150K |
| | L1103, 1104 | AXIAL INDUCTOR | LAU270K |
| | L1105 | AXIAL INDUCTOR | LAU680K |
| CAPACITORS | | | |
| | TC1101 | CERAMIC TRIMMER | ACM-020 |
| | C1103 | ELECT. CAPACITOR | CEAS101M10 |
| | C1104 | ELECT. CAPACITOR | CEAS101M16 |
| | C1106 | CERAMIC CAPACITOR | CKSQYB103K50 |
| | C1108 | ELECT. CAPACITOR | CEAS101M10 |
| | C1109 | CHIP CAPACITOR | CCSQCH101J50 |
| | C1110 | ELECT. CAPACITOR | CEAS100M50 |
| | C1111 | CERAMIC CAPACITOR | CCSQCH560J50 |
| | C1112 | ELECT. CAPACITOR | CEAS2R2M50 |
| | C1113 | ELECT. CAPACITOR | CEAS101M16 |
| | C1114, 1115 | ELECT. CAPACITOR | CEAS010M50 |
| | C1116 | CERAMIC CAPACITOR | CCSQCH561J50 |
| | C1117 | CERAMIC CAPACITOR | CKSQYB152K50 |
| | C1118 | AUDIO FILM CAPACITOR | CFTXA823J50 |
| | C1119 | AUDIO FILM CAPACITOR | CFTXA333J50 |
| | C1120 | CERAMIC CAPACITOR | CKSQYB472K50 |
| | C1121 | ELECT. CAPACITOR | CEAS010M50 |
| | C1122 | AUDIO FILM CAPACITOR | CFTXA333J50 |
| | C1123 | AUDIO FILM CAPACITOR | CFTXA105J50 |
| | C1124 | PL.STYRENE CAPACITOR | CQSA562J50 |
| | C1125 | ELECT. CAPACITOR | CEAS2R2M50 |
| | C1126 | AUDIO FILM CAPACITOR | CFTXA333J50 |
| | C1127 | CERAMIC CAPACITOR | CKSQYF473Z50 |
| | C1128 | ELECT. CAPACITOR | CEAS101M16 |
| | C1129 | AUDIO FILM CAPACITOR | CFTXA104J50 |
| | C1130 | CHIP CERAMIC C. | CCSQCH220J50 |
| | C1131 | ELECT. CAPACITOR | CEAS330M16 |
| | C1132 | CHIP CAPACITOR | CKSQYF103Z50 |
| | C1133 | CHIP CERAMIC C. | CCSQCH150J50 |
| | C1134 | CHIP CAPACITOR | CCSQCH330J50 |
| | C1135 | CHIP CERAMIC C. | CCSQCH150J50 |
| | C1136 | CHIP CERAMIC C. | CCSQCH220J50 |
| | C1137 | CHIP CAPACITOR | CKSQYF103Z50 |
| | C1138 | CHIP CERAMIC C. | CCSQCH220J50 |
| | C1139 | CHIP CAPACITOR | CKSQYF103Z50 |
| | C1144 | ELECT. CAPACITOR | CEAS101M16 |
| | C1145 | CERAMIC CAPACITOR | CKSQYB103K50 |
| | C1147 | ELECT. CAPACITOR | CEAS102M6 |
| | C1151 | ELECT. CAPACITOR | CEAS100M50 |
| | C1152 | CHIP CAPACITOR | CCSQCH050C50 |
| | C1154 | CHIP CAPACITOR | CCSQCH101J50 |
| | C1155 | CHIP CAPACITOR | CKSQYB102K50 |
| | C1156 | CHIP CAPACITOR | CCSQCH101J50 |
| | C1157, 1158 | ELECT. CAPACITOR | CEAS101M16 |
| RESISTORS | | | |
| | VR1101 | VR | VRTS6HS103 |
| | VR1102 | VR | VRTS6HS472 |
| | R1101 | CARBON FILM RESISTOR | RD1/4PM101J |
| | R1102 | CARBON FILM RESISTOR | RD1/4PM4R7J |
| | R1118 | METALFILM RESISTER | RN1/4PC1202F |
| | R1127 | CARBON FILM RESISTOR | RD1/4PMF100J |
| | R1141 | CARBON FILM RESISTOR | RD1/2PM221J |
| | R1150 | CARBON FILM RESISTOR | RD1/8PM103J |
| | R1151 | CARBON FILM RESISTOR | RD1/8PM104J |
| | | Other resistors | RS1/10S□□□J |
| OTHERS | | | |
| | CN31 | CONNECTOR (9P) | KPE9 |
| | CN35 | CONNECTOR (6P) | KPE6 |
| | | PIN JACK 1P (VIDEO OUTPUT) | AKB1145 |
| | X1101 | CRYSTAL RESONATOR (14.31818MHz) | ASS1056 |

# 7. ADJUSTMENTS

## 7.1 TUNER SECTION

1. Wiring ······ Connect the wires as shown in Fig. 7−1 (FM ANT. terminal : 75Ω).
2. Preset ······ Set the VR451 to center position.
3. When the SD model is used, set the band select switch to AM : 10kHz/FM : 100kHz.

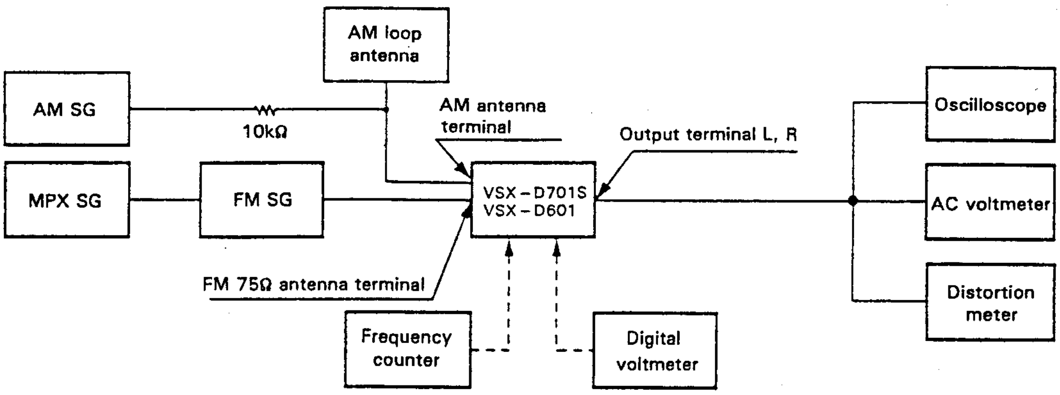

AM loop antenna
AM SG
10kΩ
AM antenna terminal
Output terminal L, R
Oscilloscope
MPX SG
FM SG
VSX-D701S
VSX-D601
AC voltmeter
FM 75Ω antenna terminal
Distortion meter
Frequency counter
Digital voltmeter

Fig. 7−1 AM and FM adjustment wiring diagram

*Note : Stereo modulation Main 1kHz L+R ±68.25kHz*
*Pilot 19kHz±6.75kHz*

### FM Section

| Order | Item | SSG | | | Receiving frequency | Adjustment | |
|---|---|---|---|---|---|---|---|
| | | Frequency | Modulation | Level | | Adjustment location | Remarks |
| 1 | Checking front end VT | No signal | | | 108MHz | — | Check that the voltage between terminal 41 and GND is 8.7±2.0V. |
| 2 | Checking front end VT | | | | 87.5MHz | — | Check that the voltage between terminal 41 and GND is 3.4±1.5V. |
| 3 | Increasing front end sensitivity | 98MHz | | Weak input | 98MHz | L402,<br>L404,<br>T402 | Set the the voltage between terminal 43 and GND to maximum, and check that the practical sensitivity is as specified. |
| 4 | Center adjustment | 98MHz | | 60dBμV | 98MHz | L431 | Adjust the voltage between terminals 45 and 46 to 0±50mV. |
| 5 | Checking monophonic distortion | 98MHz | 1kHz ±75kHz dev. | 60dBμV | 98MHz | — | Check that the monophonic distortion is as specified. |
| 6 | Adjusting VCO | | OFF | 60dBμV | | VR451 | Adjust the output of terminal 44 to 76.0kHz±1.0kHz. |
| 7 | Adjusting stereo distortion | 98MHz | L-ONLY<br>R-ONLY | 60dBμV | 98MHz | T402 | Minimize the distortion within 1/4 rotation of the core, and check conformity to the specification. |
| 8 | Checking separation | 98MHz | L-ONLY<br>R-ONLY | 60dBμV | 98MHz | — | Check that the seperation of L → R and R → L is as specified. *1 |
| 9 | Checking lighting levels of TUNED and STEREO IND. | 98MHz | STEREO | 10dBμV ($^{+1dB}_{-2dB}$) | 98MHz | VR432 | Adjust TUNED and STEREO IND. to start lighting. |

*1 : More than 30dB.

## AM Section

| Order | Item | SSG |  |  | Receiving frequency | Adjustment |  |
|---|---|---|---|---|---|---|---|
|  |  | Frequency | Modulation | Level |  | Adjustment location | Remarks |
| 1 | Checking front end VT | No signal |  |  | 1700kHz | — | Check that the voltage between terminal 41 and GND is 7.5±1.0V. |
| 2 | Checking front end VT |  |  |  | 530kHz | — | Check that the voltage between terminal 41 and GND is 1.5±0.5V. |
| 3 | Checking front end sensitivity | 1000kHz | 400kHz 30% MOD. | Practical sensitivity level | 1000kHz | — | Check that the practical sensitivity (maximum sensitivity) is as specified. *2 |
| 4 | Adjusting lighting level of TUNED IND. | 1000kHz |  |  | 1000kHz | VR431 | Adjust the lighting level of TUNED IND. to 55dBμV/m±3dB. |

*2 : 65dBμV/m or less.

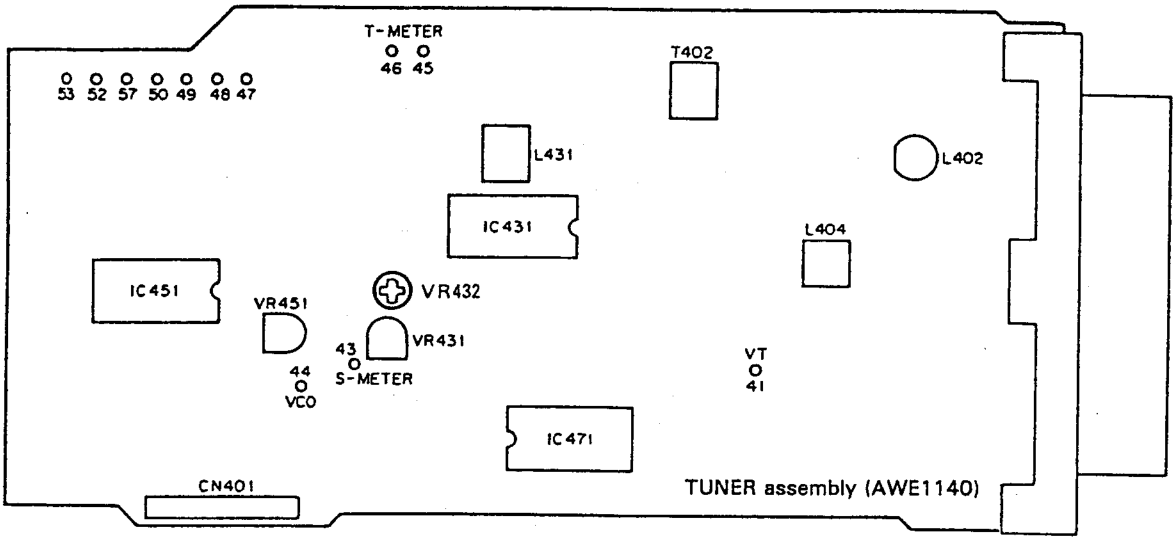

T-METER
46
45
53
52
57
50
49
48
47
T402
L431
L402
IC431
L404
IC451
VR451
VR432
VR431
43
44
S-METER
VCO
VT
41
IC471
CN401
TUNER assembly (AWE1140)

Fig. 7–2 Adjustment points

## 7.2 OSD ASSEMBLY SECTION

### 7.2.1 Adjusting H. SYNC and V. SYNC for Superimposed Display.

1. Adjust the VR1102 so that the application of power without any signal causes the OSD assembly's JP (H) to show a frequency of 15.75kHz ± 50Hz.
2. Adjust the VR1101 so that the application of power without any signal causes the OSD assembly's JP (V) to show a frequency of 53Hz ± 1Hz.

### 7.2.2 Adjusting the Superimposed Display in the Center

- Connect the VIDEO OUT (TO MONITOR TV) terminal to a monitor TV.

1. Turn the SIMULATED STEREO switch ON.
2. Then, turn the SIMULATED STEREO switch OFF.
3. Then adjust the TC1101 to center the superimposed display " SIMULATED STEREO OFF ", leaving equal margin on both right and left of the TV screen.

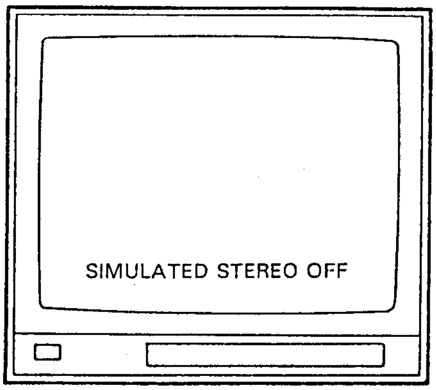


Fig. 7–3

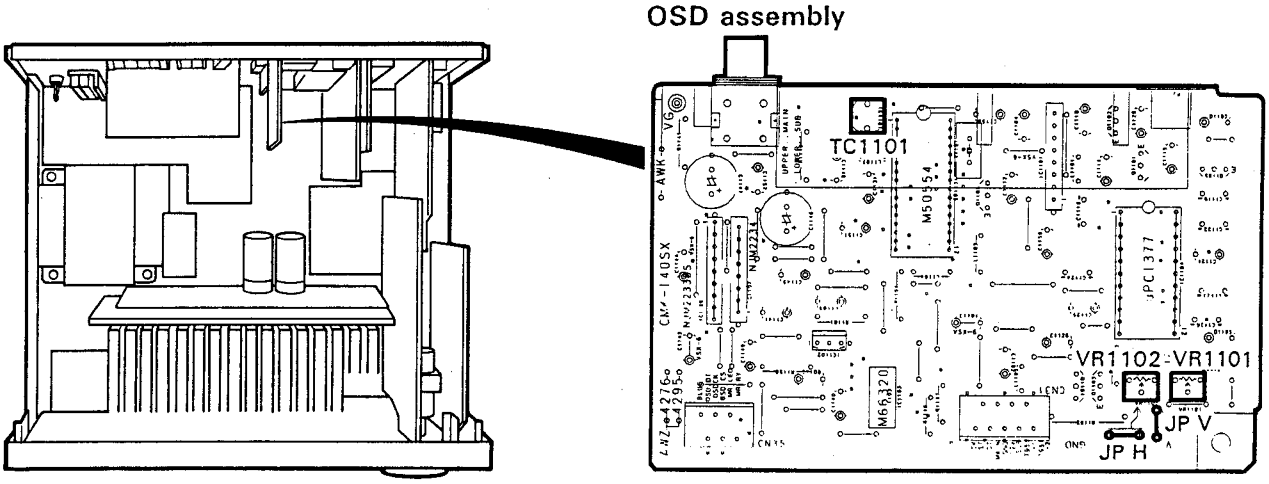


Fig. 7–4 Adjustment points

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*DOLBY and the double-D symbol ◫ are trademarks of Dolby Laboratories Licensing Corporation.*

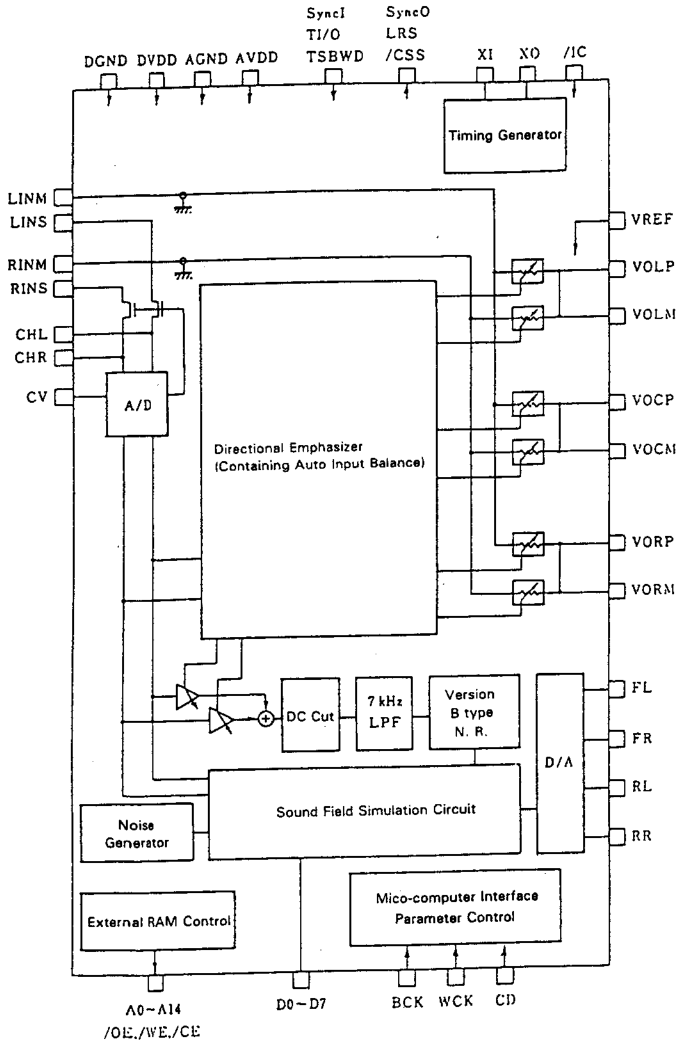
# 8. IC INFORMATION

- *The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.*

## 8.1 YSS215-F (IC1301)

### ● Dolby Pro-logic Decoder

- Block Diagram


SyncI
TI/O
TSBWD
SyncO
LRS
/CSS
DGND
DVDD
AGND
AVDD
XI
XO
/IC
Timing Generator
LINM
LINS
RINM
RINS
CHL
CHR
CV
A/D
VREF
VOLP
VOLM
VOCP
VOCM
VORP
VORM
Directional Emphasizer
(Containing Auto Input Balance)
DC Cut
7 kHz LPF
Version
B type
N. R.
D/A
FL
FR
RL
RR
Noise Generator
Sound Field Simulation Circuit
External RAM Control
Mico-computer Interface
Parameter Control
A0~A14
/OE./WE./CE
D0~D7
BCK
WCK
CD

- Pin Function

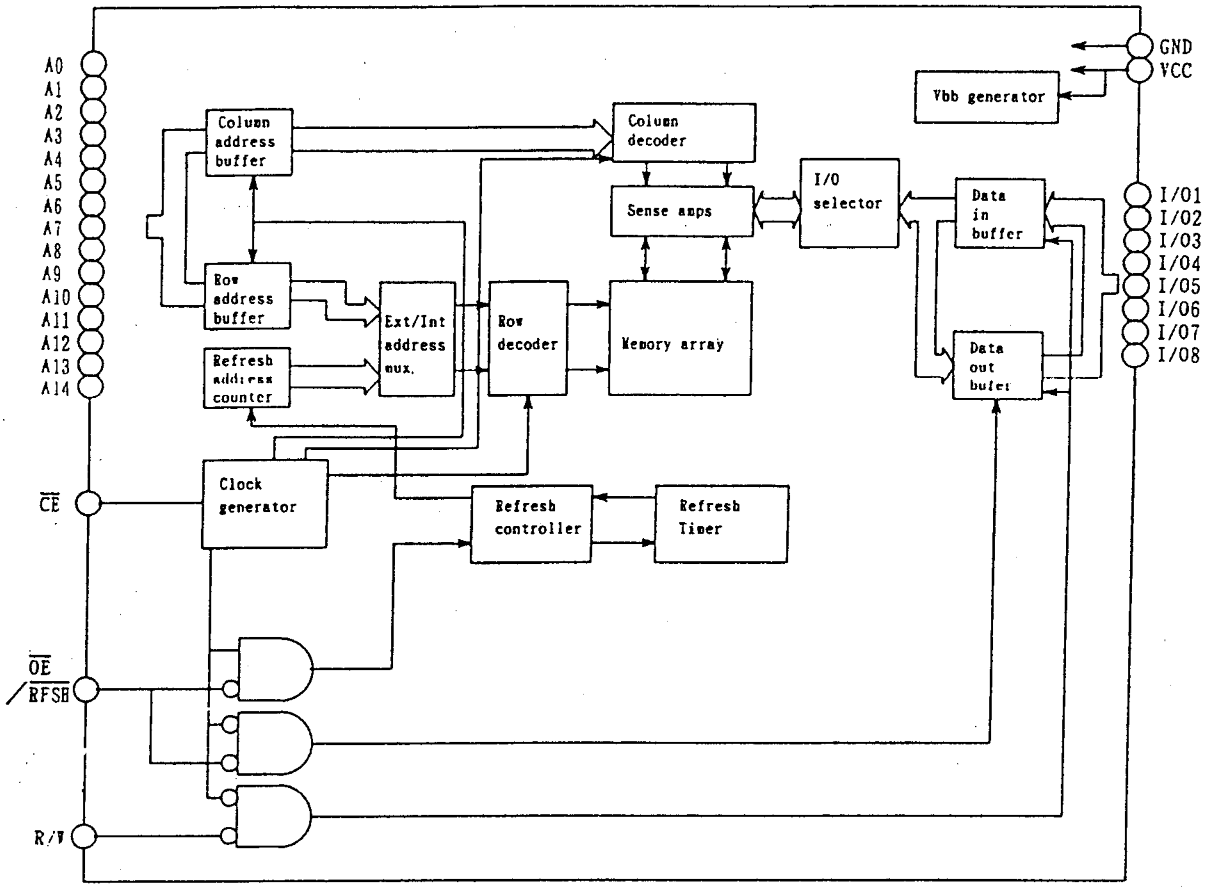
| No. | Name | I/O | Description |
|---|---|---|---|
| 1 | CD | I | Serial data of parameter data input. |
| 2 | TSBWD | I | LSI test terminal. Normally connect to DVDD. |
| 3 | TI/O | I | LSI test terminal. Normally connect to DVDD. |
| 4 | AVDD | — | +5V power supply (A/D, D/A) |
| 5 | RL | O | RL channel D/A output |
| 6 | FL | O | FL channel D/A output |
| 7 | CHL | — | LINS input sample/hold capacitor external terminal. |
| 8 | LINS | I | L channel A/D input |
| 9 | RINS | I | R channel A/D input |
| 10 | CHR | — | RINS input sample/hold capacitor external terminal. |
| 11 | FR | O | FR channel D/A output |
| 12 | RR | O | RR channel D/A output |
| 13 | CV | O | A/D, center power voltage of the multiplying DAC. |
| 14 | AGND | — | GND (A/D, D/A) |
| 15 | AGND | — | GND (multiplying DAC) |
| 16 | VREF | I | Reference power voltage input of the multiplying DAC. |
| 17 | LINM | I | L channel multiplying DAC input |
| 18 | RINM | I | R channel multiplying DAC input |
| 19 | VOLM | O | L channel operational amplifier. Connect to the negative (−) terminal. |
| 20 | VOLP | O | L channel operational amplifier. Connect to the positive (+) terminal. |
| 21 | VOCM | O | C channel operational amplifier. Connect to the negative (−) terminal. |
| 22 | VOCP | O | C channel operational amplifier. Connect to the positive (+) terminal. |

| No. | Name | I/O | Description |
|---|---|---|---|
| 23 | VORM | O | R channel operational amplifier. Connect to the negative (−) terminal. |
| 24 | VORP | O | R channel operational amplifier. Connect to the positive (+) terminal. |
| 25 | AVDD | — | +5V power supply (multiplying DAC) |
| 26 | DVDD | — | +5V power supply (digital) |
| 27 | D7 | I/O | External delay RAM data terminal |
| 28 | D6 | I/O | |
| 29 | D5 | I/O | |
| 30 | D4 | I/O | |
| 31 | D3 | I/O | |
| 32 | D2 | I/O | |
| 33 | D1 | I/O | |
| 34 | D0 | I/O | |
| 35 | A0 | O | External delay RAM address terminal |
| 36 | A1 | O | |
| 37 | A2 | O | |
| 38 | A3 | O | |
| 39 | A4 | O | |
| 40 | DGND | — | GND (digital) |
| 41 | DGND | — | |
| 42 | A5 | O | External delay RAM address terminal |
| 43 | A6 | O | |
| 44 | A7 | O | |
| 45 | A12 | O | |
| 46 | A14 | O | |
| 47 | WE | O | External delay RAM write enable terminal |

| No. | Name | I/O | Description |
|---|---|---|---|
| 48 | A13 | O | External delay RAM address terminal |
| 49 | A8 | O | |
| 50 | A9 | O | |
| 51 | A11 | O | |
| 52 | OE | O | External delay RAM output enable terminal |
| 53 | A10 | O | External delay RAM address terminal |
| 54 | CE | O | External delay RAM chip enable terminal |
| 55 | XO | O | Crystal oscillator connection terminal |
| 56 | XI | I | Crystal oscillator connection terminal (11.2896MHz) |
| 57 | SyncI | I | Test terminal for system cycle. Normally connect to DVDD. |
| 58 | DVDD | — | +5V power supply (digital) |
| 59 | SyncO | O | Test terminal for system cycle. Normally do not connect. |
| 60 | IC | I | Initial clear terminal. Requires to be reset when the power is turned ON. |
| 61 | LRS | O | External auto input balance terminal. Normally do not connect. |
| 62 | CSS | O | |
| 63 | BCK | I | Parameter data input bit clock |
| 64 | WCK | I | Parameter data input word clock |

## 8.2 LH5P832N – 10T (IC1302)

### ● Block Diagram


A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
GND
VCC
Vbb generator
Column address buffer
Column decoder
Sense amps
I/O selector
Data in buffer
I/O1
I/O2
I/O3
I/O4
I/O5
I/O6
I/O7
I/O8
Row address buffer
Ext/Int address mux.
Row decoder
Memory array
Data out bufer
Refresh address counter
Clock generator
Refresh controller
Refresh Timer
CE
OE/RFSH
R/W

### ● Pin Function

| No. | Symbol | Description |
|---|---|---|
| 1 | A14 | ADDRESS INPUT |
| 2 | A12 | |
| 3 | A7 | |
| 4 | A6 | |
| 5 | A5 | |
| 6 | A4 | |
| 7 | A3 | |
| 8 | A2 | |
| 9 | A1 | |
| 10 | A0 | |
| 11 | I/O1 | DATA INPUT/OUTPUT |
| 12 | I/O2 | |
| 13 | I/O3 | |
| 14 | GND | GND |
| 15 | I/O4 | DATA INPUT/OUTPUT |
| 16 | I/O5 | |
| 17 | I/O6 | |
| 18 | I/O7 | |
| 19 | I/O8 | |
| 20 | $\overline{CE}$ | CHIP ENABLE |
| 21 | A10 | DATA INPUT/OUTPUT |
| 22 | $\overline{OE}/\overline{RFSH}$ | OUTPUT ENABLE/REFRESH |
| 23 | A11 | ADDRESS INPUT |
| 24 | A9 | |
| 25 | A8 | |
| 26 | A13 | |
| 27 | R/W | READ/WRITE INPUT |
| 28 | Vcc | Vcc |

# 9. REMOTE CONTROL UNIT [CU – VSX048 (AXD1268)]
# [CU – VSX047 (AXD1269)]
# [CU – VSX052 (AXD1288)]

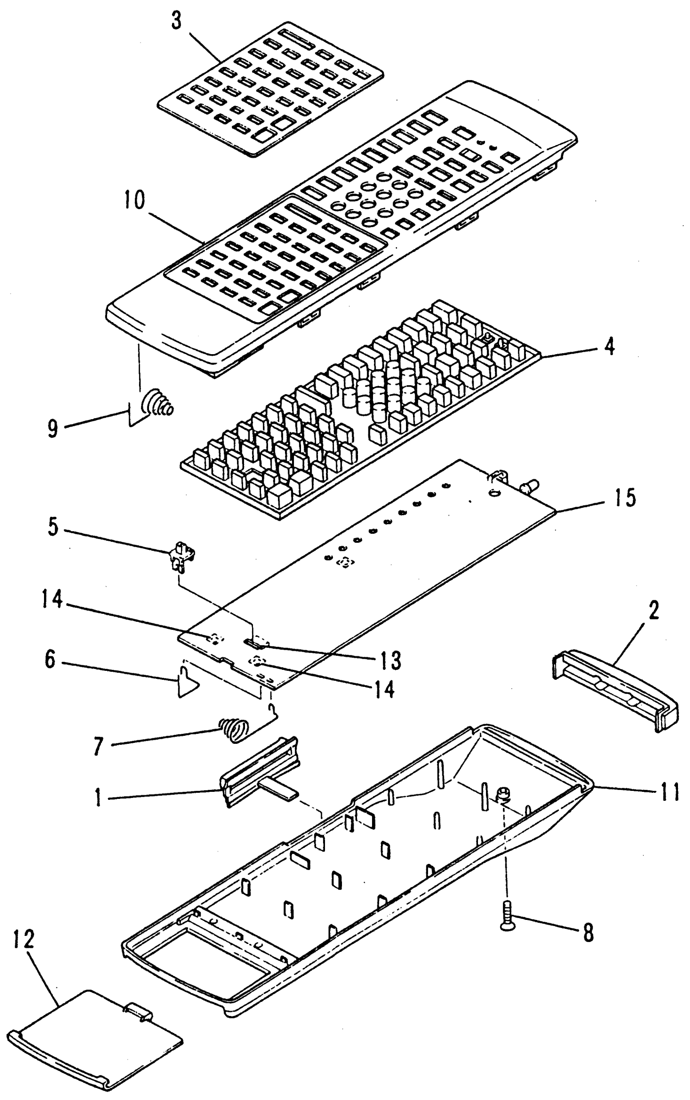
## 9.1 EXPLODED VIEW AND PARTS LIST

*NOTES:*

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

### Parts list of Exterior

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| | 1 | MODE CHECK KEY | AZA1335 |
| | 2 | FILTER | AZA1336 |
| | 3 | PLATE (AXD1268) | AZA1367 |
| | 3 | PLATE (AXD1288) | AZA1379 |
| | 3 | PLATE (AXD1269) | AZA1368 |
| | 4 | RUBBER SHEET (AXD1268) | AZA1362 |
| | 4 | RUBBER SHEET (AXD1288) | AZA1363 |
| | 4 | RUBBER SHEET (AXD1269) | AZA1363 |
| | 5 | KNOB | AZA1349 |
| | 6 | TERMINAL (+) | AZB1327 |
| | 7 | TERMINAL (−) | AZB1328 |
| | 8 | SCREW | AZB1329 |
| | 9 | TERMINAL (C) | AZB1330 |
| | 10 | CASE (A)(AXD1268) | AZN2089 |
| | 10 | CASE (A)(AXD1269) | AZN2175 |
| | 10 | CASE (A)(AXD1288) | AZN2089 |
| | 11 | CASE (B)(AXD1268) | AZN2090 |
| | 11 | CASE (B)(AXD1269) | AZN2184 |
| | 11 | CASE (B)(AXD1288) | AZN2090 |
| | 12 | BATTERY COVER | AZN2091 |
| | 13 | SLIDE SW | AZS1117 |
| | 14 | TACT SW | AZS1118 |
| NSP | 15 | P. C. BOARD (AXD1288) | AZW1130 |
| NSP | 15 | P. C. BOARD (AXD1268) | AZW1130 |
| NSP | 15 | P. C. BOARD (AXD1269) | AZW1133 |



## 9.2 PCB PARTS LIST

*NOTES:*

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

*Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).*

*560Ω → $56 \times 10^1$ → 561 ......................... RD1/8PM $\boxed{5}\ \boxed{6}\ \boxed{1}$ J*
*47kΩ → $47 \times 10^3$ → 473 ......................... RD1/4PS $\boxed{4}\ \boxed{7}\ \boxed{3}$ J*
*0.5Ω → 0R5 .............................................. RN2H $\boxed{0}\ \boxed{R}\ \boxed{5}$ K*
*1Ω → 010 .............................................. RS1P $\boxed{0}\ \boxed{1}\ \boxed{0}$ K*

*Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).*

*5.62kΩ → $562 \times 10^1$ → 5621 ....................... RN1/4PC $\boxed{5}\ \boxed{6}\ \boxed{2}\ \boxed{1}$ F*

### Parts list of AXD1268 (VSX – D701S/KU, KC, SD)
### AXD1288 (VSX – D601/KC)

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| SEMICONDUCTORS | | | |
| | IC1 | μ–COM | ACM001–029 |
| | IC2 | IC | AZC1564 |
| | IC3 | LOGIC IC | MC74HC138F |
| | Q1, 2 | CHIP TRANSISTOR | 2SC3052E |
| | Q3, 4 | TRANSISTOR | 2SD1622 |
| | D1 | DIODE | DWA010–TE |
| | D10–17 | LED | AZC1573 |
| | D2–6 | DIODE | DWA010–TE |
| | D7 | LED | SLR–938C |
| | D8 | DIODE | SPS–503C–3 |
| | D9 | LED | AZC1573 |
| CAPACITORS | | | |
| | C1, 2 | CERAMIC CAPACITOR | CCDSL330J50 |
| | C3 | CERAMIC CAPACITOR | CCDSL221J50 |
| | C4 | CERAMIC CAPACITOR | CKDYX104M25 |
| | C5 | ELECT. CAPACITOR | CEAS470M10 |
| | C6 | CERAMIC CAPACITOR | CKDYB103K50 |
| | C7 | ELECT. CAPACITOR | CEAS221M10 |
| | C8 | ELECT. CAPACITOR | CEAS4R7M50 |
| RESISTORS | | | |
| | R7, 8 | CARBON FILM RESISTOR | RD1/4PMFL1R5J |
| | | Other resistors | RD1/8PM□□□J |
| OTHERS | | | |
| | X1 | RESONATOR | AZC1570 |

### Parts list of AXD1269 (VSX – D601/KU)

| Mark | No. | Description | Parts No. |
|---|---|---|---|
| SEMICONDUCTORS | | | |
| | IC1 | μ–COM | S–1800AF–002 |
| | Q1 | TRANSISTOR | 2SD1664 |
| | Q2, 3 | CHIP TRANSFORMER | 2SC2412K |
| | IED1 | LED | SLR–938C |
| | LED1–9 | LED | AZC1573 |
| CAPACITORS | | | |
| | C1, 2 | CERAMIC CAPACITOR | AZC1587 |
| | C3, 4 | CERAMIC CAPACITOR | CKDYX104M25 |
| | C5 | ELECT. CAPACITOR | CEAS470M10 |
| RESISTORS | | | |
| | R1 | CARBON FILM RESISTOR | RD1/4PM1R8J |
| | | Other resistors | RD1/8PM□□□J |
| OTHERS | | | |
| | X1 | RESONATOR | AZC1586 |

## 9.3 SCHEMATIC DIAGRAM (FOR AXD1268 AND AXD1288)

NOTE)

JP2 : The terminal for switching Fc (carrier frequency of the fixed code). This terminal is set at OPEN (Fc = 40kHz) when delivered. If a product of another manufacturer accidentally receives the PIONEER code, short the terminal so that Fc will be 36.7kHz. (In which case, the learned code and preset code do not change.)

JP3 : This remote control saves the learned data, timing data in ROM and other data (such as code data) in RAM. ROM already contains the timing data for other primary manufacturers. JP3 is a terminal for switching whether or not to use that pre-loaded timing data during learning.
This terminal is set at OPEN when delivered. If "data is learned but the product does not operate," there is the rare possibility that learned timing data is affected by the timing data for another primary manufacturer in ROM, causing the receiving product to be deactivated. In such a case, short JP3 to clear all the learned data and restart data learning, so that the data precision is increased. (In which case, the learned data in RAM is shared as is.)

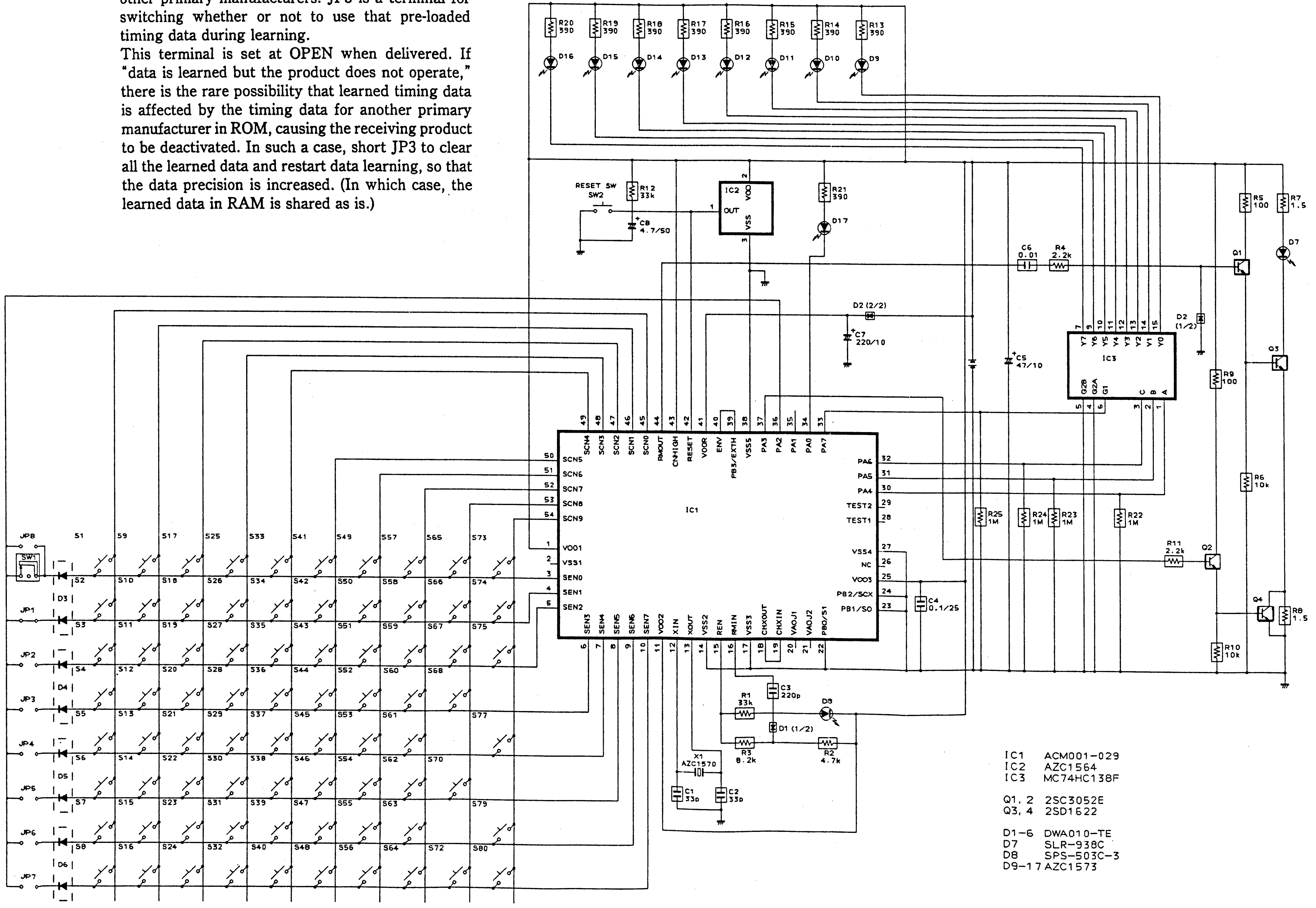
NOTE:

-▭- : Indicates a chipresistor.
-╪- : Indicates a chipcapacitor.
⊏ : Indicates a chiptransistor.
-⊞- : Indicates a chipdiode.

Note: (Type 2)

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
4. **CAPACITORS:**
   Unit: p:pF or µF unless otherwise noted.
   Ratings: capacitor (µF)/ voltage (V) unless otherwise noted.
   Rated voltage: 50V except for electrolytic capacitors.
5. **COILS:**
   Unit: m:mH or µH unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
   ▭ : DC voltage (V) at no input signal unless otherwise noted.
   ⇦ mA or ← mA : DC current at no input signal unless otherwise noted.
7. **OTHERS:**
   - ⊘ : Adjusting point.
   - The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. **SWITCHES** (Underline indicates switch position):

SW1 : CENT. · BAL. / REAR · REAR BAL.
SW2 : RESET
S1 : VCR1
S2 : VCR2
S3 : LD
S4 : TV
S5 : CD
S6 : TUNER
S7 : DECK Ⅰ
S8 : DECK Ⅱ
S9 : DAT
S10 : MODE CHECK
S11 : LEARN
S12 : EDIT
S13 : MULTI COMMAND
S14 : M.CLEAR
S15 : POWER
S16 : ⏮
S17 : REC
S18 : ⏭
S19 : ⏪
S20 : ◀ (SEARCH)
S21 : ⏩
S22 : ⏸
S23 : ■
S24 : ▶
S25 : TV/VCR (+10)
S26 : SELECT (DISP)
S27 : TV FUNC (BAND)
S28 : 1
S29 : 2
S30 : 3
S31 : 4
S32 : 5
S33 : 6
S34 : 7
S35 : 8
S36 : 9
S37 : 10/0
S38 : 11/PGM
S39 : 12/CLEAR
S40 : CUSTOM (TV VOL+)
S41 : SCAN (TV VOL−)
S42 : FREQ CH (V)
S43 : FREQ CH (Λ)
S44 : RECEIVER POWER
S45 : AUTO SOURCE CONTROL 1
S46 : AUTO SOURCE CONTROL 2
S47 : SLEEP
S48 : VCR1
S49 : VCR2
S50 : LD
S51 : TV
S52 : VIDEO
S53 : TAPE1/DAT
S54 : TAPE2/MONITOR
S55 : CD
S56 : TUNER
S57 : PHONO
S58 : SIMULATED STEREO
S59 : ACOUSTIC
S60 : V.SEL
S61 : DISPLAY
S62 : RETURN
S63 : SURR MODE
S64 : 3CH LOGIC
S65 : CENTER MODE
S66 : TEST TONE
S67 : MUTING
S68 : EFFECT +
S70 : CENTER +
S72 : EFFECT −
S73 : REAR L
S74 : REAR R
S75 : DELAY TIME
S77 : CENTER −
S79 : MASTER VOLUME +
S80 : MASTER VOLUME −


R20 390
R19 390
R18 390
R17 390
R16 390
R15 390
R14 390
R13 390
D16
D15
D14
D13
D12
D11
D10
D9
RESET SW
SW2
R12 33k
C8 4.7/50
IC2
OUT
VDD
VSS
R21 390
D17
C6 0.01
R4 2.2k
R5 100
R7 1.5
D7
Q1
D2 (2/2)
C7 220/10
C5 47/10
D2 (1/2)
IC3
Y7 Y6 Y5 Y4 Y3 Y2 Y1 Y0
G2B G2A G1 C B A
Q3
R9 100
R6 10k
IC1
SCN4 SCN3 SCN2 SCN1 SCN0 RMOUT CNHIGH RESET VDDR ENV PB3/EXTH VSS5 PA3 PA2 PA1 PA0 PA7
SCN5
SCN6
SCN7
SCN8
SCN9
VDD1
VSS1
SEN0
SEN1
SEN2
PA6
PA5
PA4
TEST2
TEST1
VSS4
NC
VDD3
PB2/SCK
PB1/SO
SEN3 SEN4 SEN5 SEN6 SEN7 VDD2 XIN XOUT VSS2 REN RMIN VSS3 CNHOUT CNHIN VADJ1 VADJ2 PB0/SI
C4 0.1/25
R25 1M
R24 1M
R23 1M
R22 1M
R11 2.2k
Q2
Q4
R8 1.5
R10 10k
C3 220p
R1 33k
D8
D1 (1/2)
R3 8.2k
R2 4.7k
X1 AZC1570
C1 33p
C2 33p
JP8
SW1
JP1
JP2
JP3
JP4
JP5
JP6
JP7
D3
D4
D5
D6
S1 S9 S17 S25 S33 S41 S49 S57 S65 S73
S2 S10 S18 S26 S34 S42 S50 S58 S66 S74
S3 S11 S19 S27 S35 S43 S51 S59 S67 S75
S4 S12 S20 S28 S36 S44 S52 S60 S68
S5 S13 S21 S29 S37 S45 S53 S61 S77
S6 S14 S22 S30 S38 S46 S54 S62 S70
S7 S15 S23 S31 S39 S47 S55 S63 S79
S8 S16 S24 S32 S40 S48 S56 S64 S72 S80

| | |
|---|---|
| IC1 | ACM001-029 |
| IC2 | AZC1564 |
| IC3 | MC74HC138F |
| Q1, 2 | 2SC3052E |
| Q3, 4 | 2SD1622 |
| D1-6 | DWA010-TE |
| D7 | SLR-938C |
| D8 | SPS-503C-3 |
| D9-17 | AZC1573 |

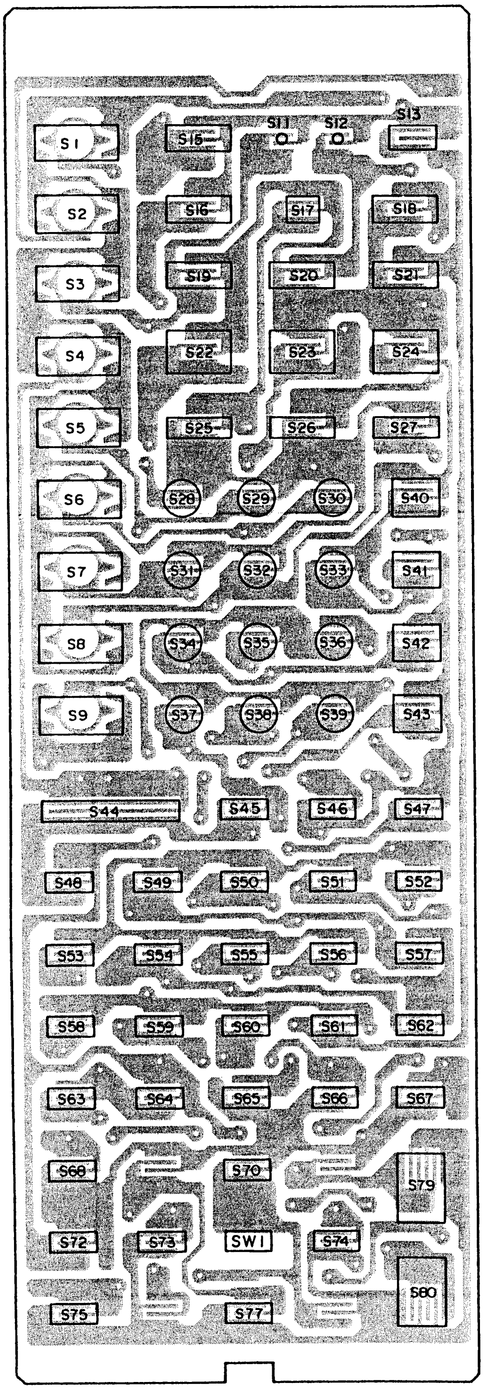
## 9.4 P. C. BOARD PATTERN (FOR AXD1268 AND AXD1288)

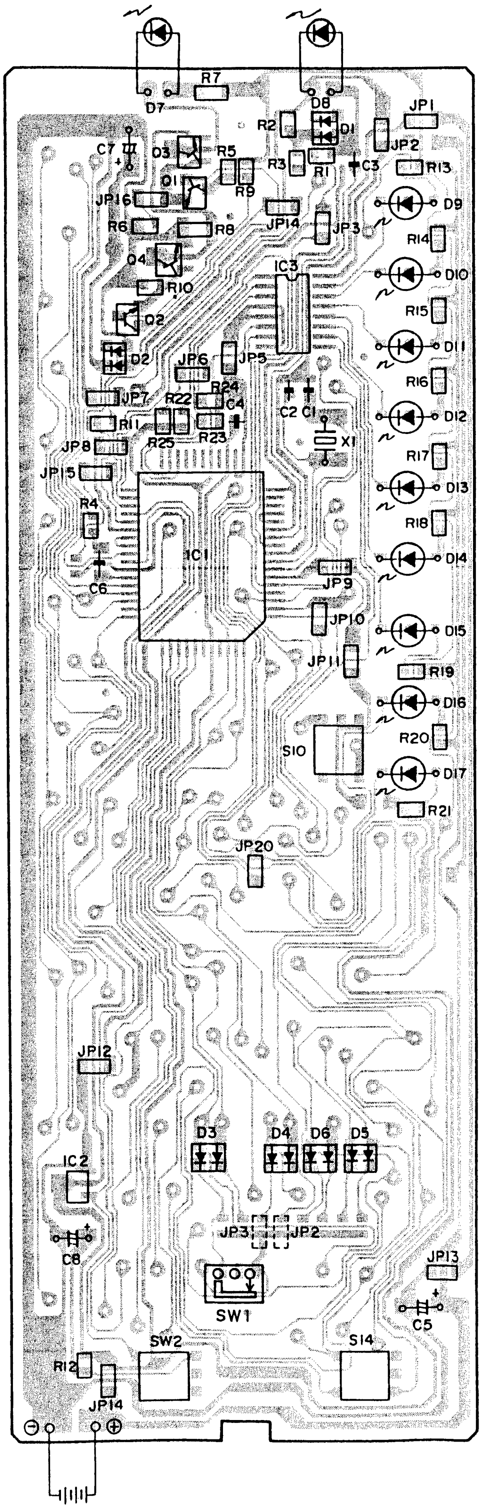
:Indicates a chip resistor.

:Indicates a chip capacitor.

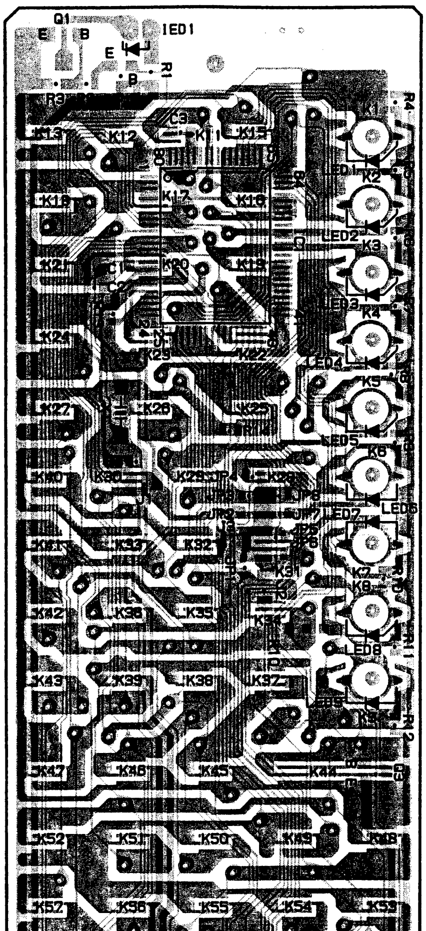
:Indicates a chip transistor.

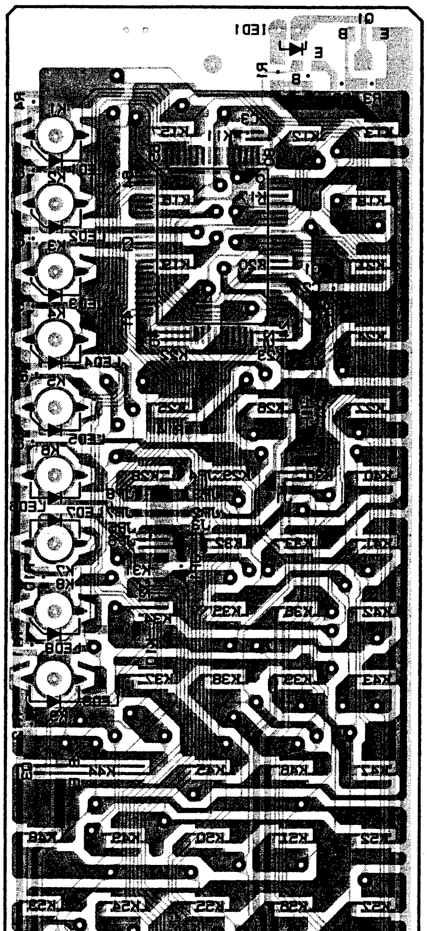
:Indicates a chip diode.


S1
S2
S3
S4
S5
S6
S7
S8
S9
S11
S12
S13
S15
S16
S17
S18
S19
S20
S21
S22
S23
S24
S25
S26
S27
S28
S29
S30
S31
S32
S33
S34
S35
S36
S37
S38
S39
S40
S41
S42
S43
S44
S45
S46
S47
S48
S49
S50
S51
S52
S53
S54
S55
S56
S57
S58
S59
S60
S61
S62
S63
S64
S65
S66
S67
S68
S70
S72
S73
SW1
S74
S75
S77
S79
S80

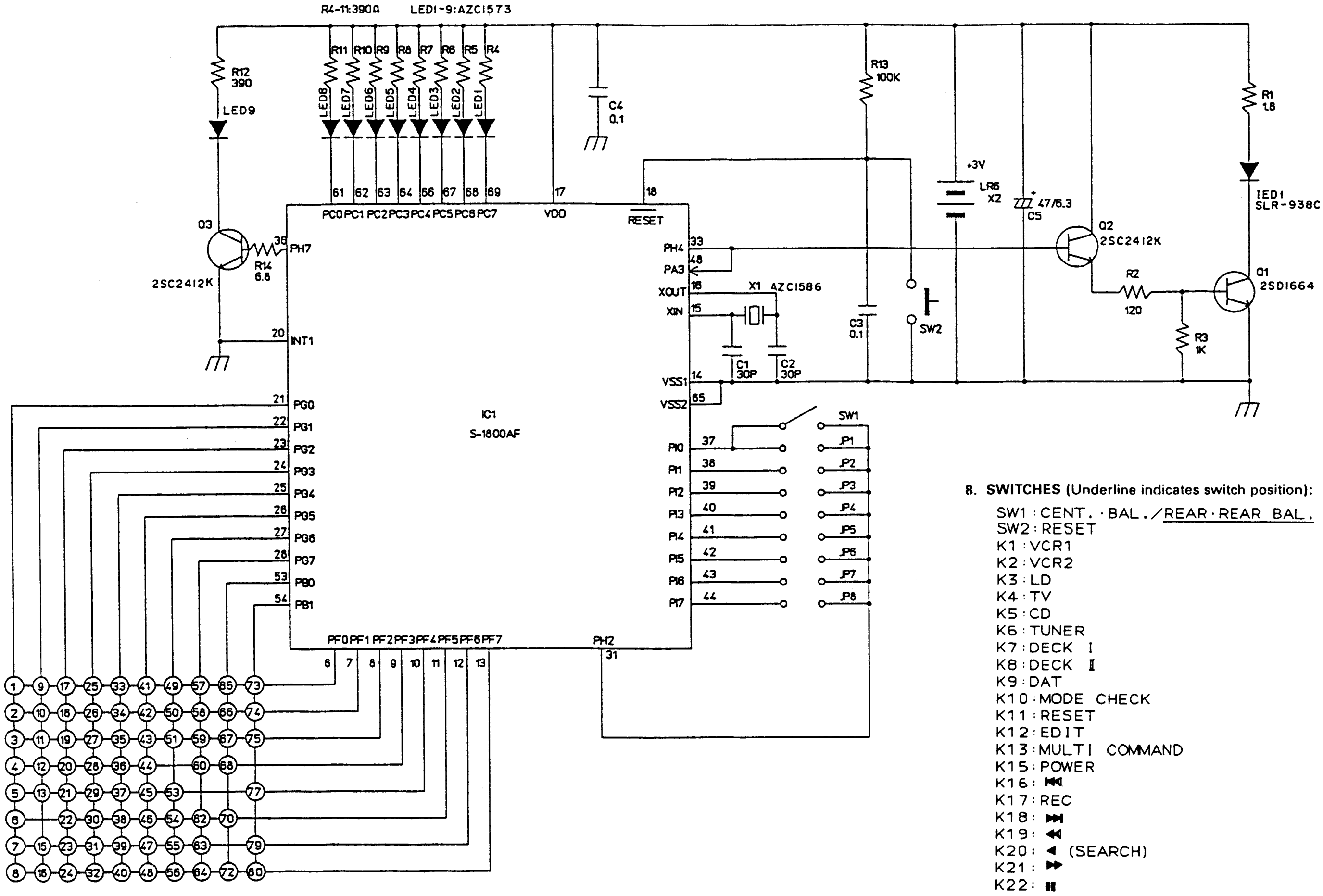

D7
R7
D8
JP1
R2
D1
C7
Q3
R5
R3
R1
C3
JP2
R13
Q1
R9
JP16
D9
R6
R8
JP14
JP3
R14
Q4
D10
R10
IC3
R15
Q2
D11
D2
JP6
JP5
R24
JP7
R22
C4
C2
C1
R16
R11
R25
R23
D12
JP8
X1
R17
JP15
D13
R4
R18
IC1
D14
C6
JP9
JP10
D15
JP11
R19
D16
S10
R20
D17
R21
JP20
JP12
D3
D4
D6
D5
IC2
JP3
JP2
C8
JP13
SW1
C5
SW2
S14
R12
JP14

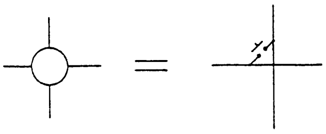
## 9.5 P. C. BOARD PATTERN (FOR AXD1269)


Q1
E
B
LED1
R1
R3
R4
K1
K2
K3
K4
K5
K6
K7
K8
K9
K11
K12
K13
K15
K16
K17
K18
K19
K20
K21
K22
K23
K24
K25
K26
K27
K28
K29
K30
K31
K32
K33
K34
K35
K36
K37
K38
K39
K40
K41
K42
K43
K44
K45
K46
K47
K48
K49
K50
K51
K52
K53
K54
K55
K56
K57
K58
K59
K60
K61
K62
K63
K64
K65
K66
K67
K68
K69
K70
K71
K72
K73
K74
K75
K76
K77
K78
K79
K80
LED2
LED3
LED4
LED5
LED6
LED7
LED8
SW1
3



## 9.6 SCHEMATIC DIAGRAM (FOR AXD1269)


R4–11:390Ω
LED1–9:AZC1573
R11 R10 R9 R8 R7 R6 R5 R4
LED8 LED7 LED6 LED5 LED4 LED3 LED2 LED1
R12 390
LED9
C4 0.1
R13 100K
+3V
LR6 X2
47/6.3 C5
R1 1.8
IED1 SLR-938C
Q3 2SC2412K
R14 6.8
Q2 2SC2412K
R2 120
R3 1K
Q1 2SD1664
61 62 63 64 66 67 68 69 17 18
PC0 PC1 PC2 PC3 PC4 PC5 PC6 PC7 VDD RESET
36 PH7
20 INT1
PH4 33
PA3 48
XOUT 16
XIN 15
X1 AZC1586
C3 0.1
SW2
C1 30P
C2 30P
VSS1 14
VSS2 65
IC1 S-1800AF
21 PG0
22 PG1
23 PG2
24 PG3
25 PG4
26 PG5
27 PG6
28 PG7
53 PB0
54 PB1
SW1
PI0 37 JP1
PI1 38 JP2
PI2 39 JP3
PI3 40 JP4
PI4 41 JP5
PI5 42 JP6
PI6 43 JP7
PI7 44 JP8
PF0 PF1 PF2 PF3 PF4 PF5 PF6 PF7
6 7 8 9 10 11 12 13
PH2 31
① ⑨ ⑰ ㉕ ㉝ ㊶ ㊾ 57 65 73
② ⑩ ⑱ ㉖ ㉞ ㊷ ㊿ 58 66 74
③ ⑪ ⑲ ㉗ ㉟ ㊸ (51) 59 67 75
④ ⑫ ⑳ ㉘ ㊱ ㊹ 60 68
⑤ ⑬ ㉑ ㉙ ㊲ ㊺ (53) 77
⑥ ㉒ ㉚ ㊳ ㊻ (54) 62 70
⑦ ⑮ ㉓ ㉛ ㊴ ㊼ (55) 63 79
⑧ ⑯ ㉔ ㉜ ㊵ ㊽ (56) 64 72 80



8. **SWITCHES** (Underline indicates switch position):

SW1 : CENT.·BAL./REAR·REAR BAL.
SW2 : RESET
K1 : VCR1
K2 : VCR2
K3 : LD
K4 : TV
K5 : CD
K6 : TUNER
K7 : DECK Ⅰ
K8 : DECK Ⅱ
K9 : DAT
K10 : MODE CHECK
K11 : RESET
K12 : EDIT
K13 : MULTI COMMAND
K15 : POWER
K16 : ⏮
K17 : REC
K18 : ⏭
K19 : ⏪
K20 : ◀ (SEARCH)
K21 : ⏩
K22 : ⏸
K23 : ■
K24 : ▶
K25 : TV/VCR (+10)
K26 : SELECT (DISP)
K27 : TV FUNC (BAND)
K28 : 1
K29 : 2
K30 : 3
K31 : 4
K32 : 5
K33 : 6
K34 : 7
K35 : 8
K36 : 9
K37 : 10/0
K38 : 11/PGM
K39 : 12/CLEAR
K40 : CUSTOM (TV VOL+)
K41 : SCAN (TV VOL−)
K42 : FREQ CH (∨)
K43 : FREQ CH (∧)
K44 : RECEIVER POWER
K45 : AUTO SOURCE CONTROL 1
K46 : AUTO SOURCE CONTROL 2
K47 : SLEEP
K48 : VCR1
K49 : VCR2
K50 : LD
K51 : TV
K53 : TAPE1/DAT
K54 : TAPE2/MONITOR
K55 : CD
K56 : TUNER
K57 : PHONO
K58 : SIMULATED STEREO
K59 : ACOUSTIC
K60 : V.SEL
K62 : RETURN
K63 : SURR MODE
K64 : 3CH LOGIC
K65 : CENTER MODE
K66 : TEST TONE
K67 : MUTING
K68 : EFFECT +
K70 : CENTER +
K72 : EFFECT −
K73 : REAR L
K74 : REAR R
K75 : DELAY TIME
K77 : CENTER −
K79 : MASTER VOLUME +
K80 : MASTER VOLUME −

**Note:** (Type 2)

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
4. **CAPACITORS:**
   Unit: p:pF or µF unless otherwise noted.
   Ratings: capacitor (µF)/ voltage (V) unless otherwise noted.
   Rated voltage: 50V except for electrolytic capacitors.
5. **COILS:**
   Unit: m:mH or µH unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
   ▭ : DC voltage (V) at no input signal unless otherwise noted.
   ⇦ mA or ← mA : DC current at no input signal unless otherwise noted.
7. **OTHERS:**
   - ⊘ : Adjusting point.
   - The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

# 10. FOR VSX−D701S/KC, SD, VSX−D601/KU AND KC TYPES

*NOTES:*

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

## 10.1 CONTRAST OF MISCELLANEOUS PARTS

VSX−D701S/KC, SD, VSX−D601/KU, KC and VSX−D701S/KU have the same construction except for the following :

| Mark | Symbol & Description | Part No. | | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | VSX−D701S/ KU | VSX−D701S/ KC | VSX−D701S/ SD | VSX−D601/ KU | VSX−D601/ KC | |
| ◉ | A/V FUNCTION assembly | AWZ4290 | AWZ4290 | AWZ4293 | AWZ4264 | AWZ4264 | |
| | FL U-COM assembly | AWK1548 | AWK1548 | AWK1612 | AWK1558 | AWK1558 | |
| | OSD assembly | AWZ4295 | AWZ4295 | .............. | .............. | .............. | |
| ⚠ | S1 Voltage selector (AC110V, 120−127V, 220V, 240V) | .............. | .............. | AKX−507 | .............. | .............. | |
| ⚠ | S2 Voltage selector (AC110V−127V/220V−240V) | .............. | .............. | AKX1004 | .............. | .............. | |
| ⚠ | S3 Slide switch (9k/10k) | .............. | .............. | ASH−004 | .............. | .............. | |
| ⚠ | T1 Power transformer (AC120V) | ATS1426 | ATS1426 | .............. | ATS1426 | ATS1426 | |
| ⚠ | T1 Power transformer (AC110V/120−127V/220V/240V) | .............. | .............. | ATS1427 | .............. | .............. | |
| ⚠ | C1, C2 Capacitor (0.01μF) | .............. | .............. | ACG1003 | .............. | .............. | |
| ⚠ | FU1 Fuse (8A/125V) | AEK1002 | AEK1002 | .............. | AEK1002 | AEK1002 | |
| ⚠ | FU1 Fuse (4A/125V) | .............. | .............. | AEK−125 | .............. | .............. | |
| ⚠ | FU2 Fuse (4A/125V) | .............. | .............. | AEK−125 | .............. | .............. | |
| ⚠ | FU7 Fuse (8A/125V) | .............. | AEK1002 | .............. | .............. | AEK1002 | |
| NSP | Fuse holder | .............. | .............. | AKR1001 | .............. | .............. | |
| ⚠ | AC Power cord | ADG1058 | ADG1058 | ADG1051 | ADG1058 | ADG1058 | |
| ⚠ | Cord stopper | AEP−113 | AEP−113 | AEC−882 | AEP−113 | AEP−113 | |
| | Screw | .............. | .............. | VMZ26P040FZK | .............. | .............. | For Slide switch |
| | Function button L | AAD2266 | AAD2266 | AAD2266 | AAD2268 | AAD2268 | |
| | Function button R | AAD2267 | AAD2267 | AAD2267 | AAD2269 | AAD2269 | |
| | Front panel | AMB1991 | AMB1991 | AMB1991 | AMB1990 | AMB1990 | |
| NSP | Rear panel | ANC1896 | ANC1896 | ANC1897 | ANC1894 | ANC1894 | |
| NSP | Barrier | .............. | .............. | AEC1412 | .............. | .............. | |
| | Packing case | AHD2281 | AHD2281 | AHD2282 | AHD2280 | AHD2280 | |
| | Remote control unit | AXD1268 | AXD1268 | AXD1268 | AXD1269 | AXD1288 | |
| | Operating instructions (English) | ARB1380 | ARB1380 | ARB1380 | ARB1380 | .............. | |
| | Operating instructions (English, French) | .............. | .............. | .............. | .............. | ARE1242 | |
| | Operating instructions (French) | .............. | ARC1364 | .............. | .............. | .............. | |

## A/V FUNCTION ASSEMBLY

A/V FUNCTION assembly (AWZ4264, AWZ4293) and A/V FUNCTION assembly (AWZ4290) have the same construction except for the following :

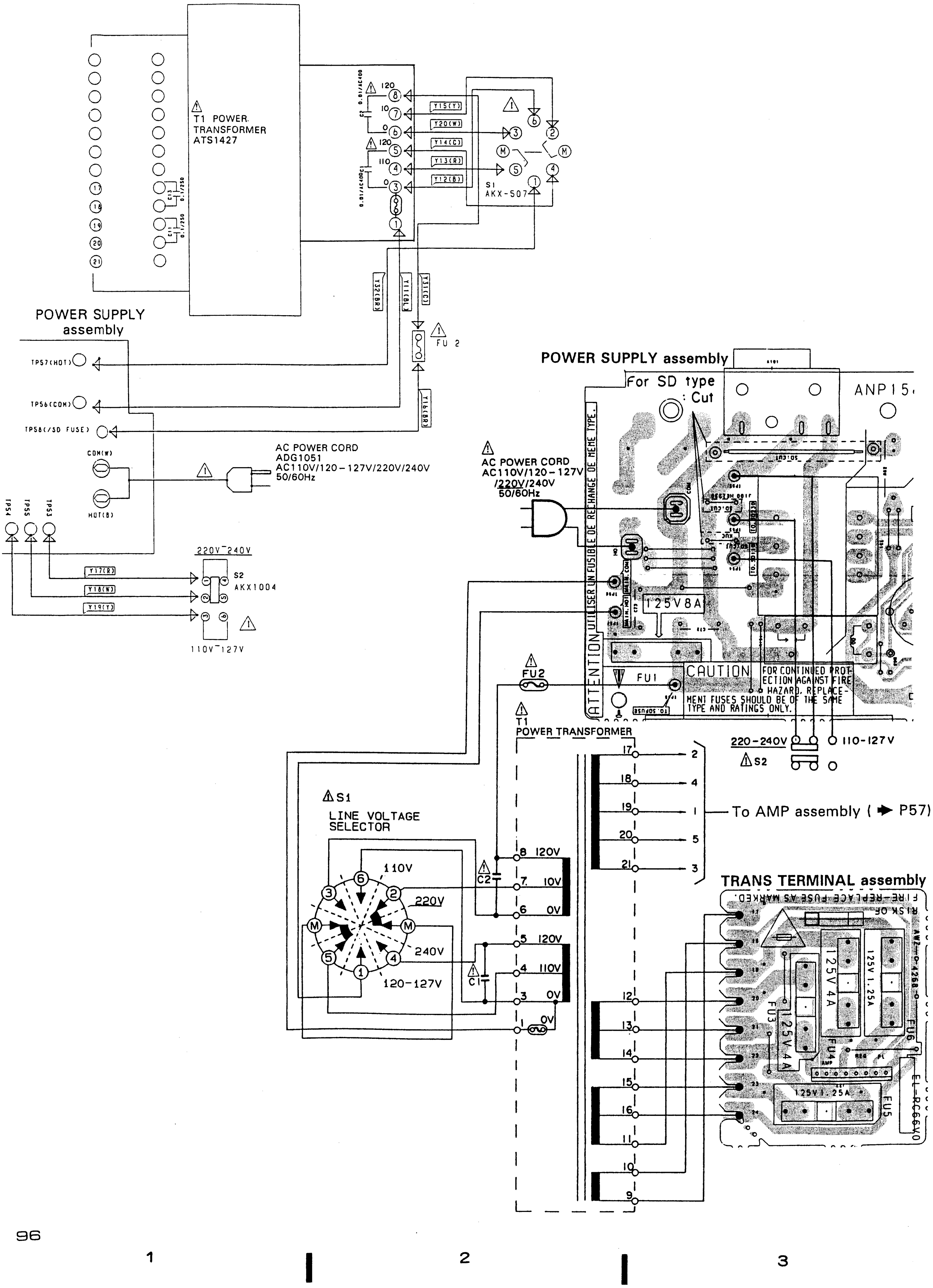
| Mark | Symbol & Description | Part No. | | | Remarks |
|---|---|---|---|---|---|
| | | AWZ4290 | AWZ4293 | AWZ4264 | |
| | IC882 | NJM2233BS | NJM2233BS | .................. | |
| | D851, D852 | 1SS352 | 1SS352 | .................. | |
| | C888 | .................. | CEAS471M6 | CEAS471M6 | |
| | C891 | CEAS101M16 | CEAS101M16 | .................. | |
| | C892, C893 | CEAS470M16 | CEAS470M16 | .................. | |
| | C900 | CKSQYB103K50 | CKSQYB103K50 | .................. | |
| | R888 | .................. | RS1/10S103J | RS1/10S103J | |
| | R889 | .................. | RS1/10S680J | RS1/10S680J | |
| | R898 | RS1/10S102J | RS1/10S102J | .................. | |
| | R912 | RD1/8PM100J | .................. | .................. | |
| | Pin jack | .................. | AKB1145 | AKB1145 | MONI OUT |

## FL U-COM ASSEMBLY

FL U-COM assembly (AWK1612, AWK1558) and FL U-COM assembly (AWK1548) have the same construction except for the following :

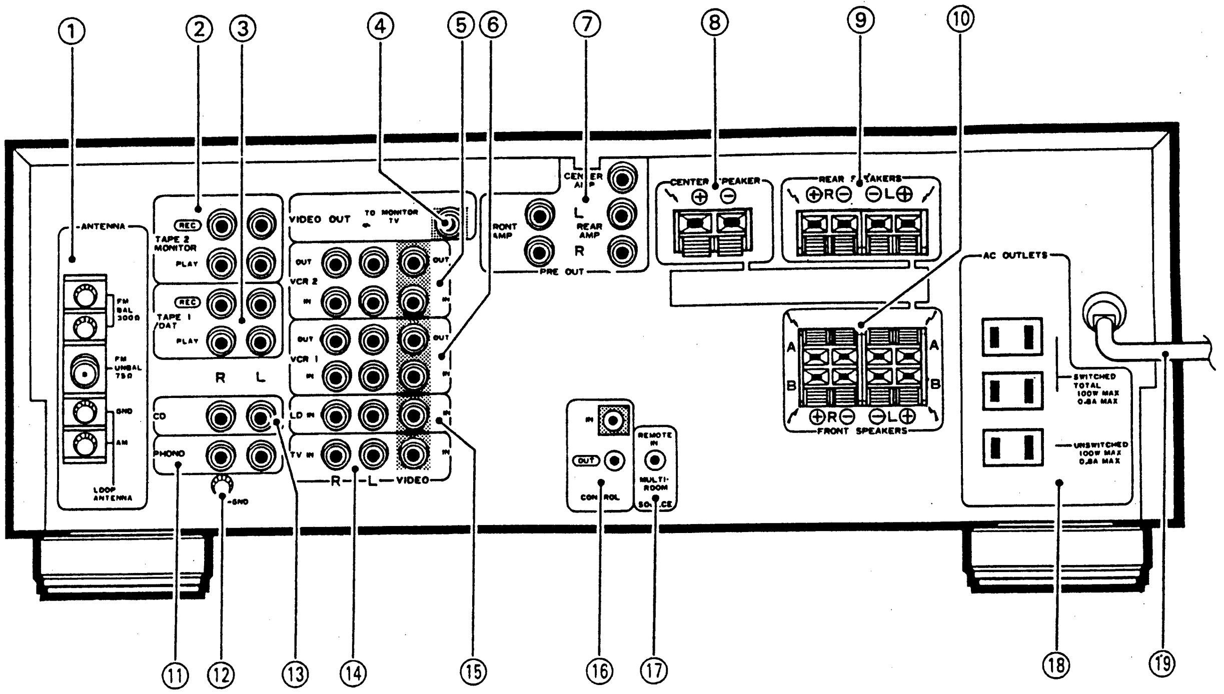
| Mark | Symbol & Description | Part No. | | | Remarks |
|---|---|---|---|---|---|
| | | AWK1548 | AWK1612 | AWK1558 | |
| | S630, S644, S648 | ASG1034 | ASG1034 | ............... | |
| | R619 | RD1/8PM750J | RD1/8PM750J | ............... | |
| | R620, R622 | RD1/8PM474J | RD1/8PM474J | ............... | |
| | R621, R623 | RD1/8PM331J | RD1/8PM331J | ............... | |
| | R626 | RD1/8PM473J | RD1/8PM473J | ............... | |
| | R627 | ............... | ............... | RD1/8PM473J | |
| | R631 | RD1/8PM222J | RD1/8PM222J | ............... | |
| | Pin jack 1P | AKB1082 | AKB1082 | .................. | |

## 10.2 POWER SUPPLY SECTION (FOR VSX-D701S/SD)


T1 POWER TRANSFORMER
ATS1427
120
10
0
120
110
0
0.01/AC400
0.01/AC400C
C2
C1
C13
C11
0.1/250
Y15(Y)
Y20(W)
Y14(C)
Y13(R)
Y12(B)
S1
AKX-507
Y32(BR)
Y11(BL)
Y31(C)
FU 2
Y16(BR)
POWER SUPPLY
assembly
TP57(HOT)
TP56(COM)
TP58(/SD FUSE)
COM(W)
HOT(B)
AC POWER CORD
ADG1051
AC110V/120-127V/220V/240V
50/60Hz
TP54
TP55
TP53
220V~240V
S2
AKX1004
Y17(R)
Y18(W)
Y19(Y)
110V~127V
POWER SUPPLY assembly
For SD type
: Cut
ANP15
AC POWER CORD
AC110V/120-127V
/220V/240V
50/60Hz
ATTENTION UTILISER UN FUSIBLE DE RECHANGE DE MEME TYPE.
COM
HO
MAIN.COM
MAIN.HOT
125V8A
SD.CUT
TO.SD
FU1
TO.SDFUSE
CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.
FU2
T1
POWER TRANSFORMER
220-240V
110-127V
S2
17
18
19
20
21
2
4
1
5
3
To AMP assembly ( ➡ P57)
S1
LINE VOLTAGE SELECTOR
110V
220V
240V
120-127V
M
8 120V
7 10V
6 0V
5 120V
4 110V
3 0V
1 0V
C2
C1
12
13
14
15
16
11
10
9
TRANS TERMINAL assembly
RISK OF FIRE-REPLACE FUSE AS MARKED.
AWZ-042GB
125V 4A
125V 1.25A
FU3
FU4
FU5
FU6
125V1.25A
EL-RC66V0

# 11. PANEL FACILITIES

- Illustration shows model VSX-D701S.


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
-ANTENNA-
FM BAL 300Ω
FM UNBAL 75Ω
GND
AM
LOOP ANTENNA
REC
TAPE 2 MONITOR
PLAY
REC
TAPE 1 /DAT
PLAY
R
L
CD
PHONO
GND
VIDEO OUT
TO MONITOR TV
OUT
VCR 2
IN
OUT
VCR 1
IN
LD IN
TV IN
R
L
VIDEO
OUT
IN
OUT
IN
IN
IN
CENTER AMP
FRONT AMP
L
REAR AMP
R
PRE OUT
CENTER SPEAKER
⊕ ⊖
REAR SPEAKERS
⊕R⊖ ⊖L⊕
A
B
A
B
⊕R⊖ ⊖L⊕
FRONT SPEAKERS
IN
OUT
CONTROL
REMOTE IN
MULTI-ROOM
SOURCE
AC OUTLETS
SWITCHED TOTAL 100W MAX 0.8A MAX
UNSWITCHED 100W MAX 0.8A MAX
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲

## ① FM/AM ANTENNA terminals

Use these antenna terminals for reception of normal FM and AM broadcasts.

## ② TAPE 2 MONITOR jacks

Connect the second cassette deck to these jacks.

**Connecting for Recording**

The tape recording jack (REC) on the cassette deck should be connected to the REC side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

**Connecting for Playback**

Connect the TAPE PLAY jack on the cassette deck to the PLAY side of the TAPE 2 MONITOR jack on the receiver with a pin plug connecting cord.

## ③ TAPE 1/DAT jacks

Use these to connect the cassette deck or DAT (digital audio tape) deck.

**Connecting for Recording**

The tape recording jack (REC) on the cassette deck or DAT should be connected to the REC side of the TAPE 1/DAT jack on the receiver with a pin plug connecting cord.

**Connecting for Playback**

Connect the PLAY jack on the cassette deck or DAT to the PLAY side of the TAPE 1/DAT jack on the receiver with a pin plug connecting cord.

## ④ VIDEO OUT (TV MONITOR) jack

Connect to monitor TV or to TV sets with video input terminals for watching program materials from a VCR 1, 2 or LD player connected to this unit.

## ⑤ VCR 2 jacks

**[VIDEO OUT]**

When copying program material from the video component connected to the VCR 1 or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

**[AUDIO OUT (L, R)]**

When copying program materials from the video component connected to the VCR 1 or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

**[VIDEO IN]**

When monitoring the video image from a VCR used for copying, connect its VIDEO OUTPUT jacks here.

**[AUDIO IN (L, R)]**

When monitoring the audio channel from a VCR used for copying, connect its AUDIO OUTPUT jacks here.

## ⑥ VCR 1 jacks

**[VIDEO OUT]**

When copying program material from the video component connected to the VCR 2 or LD jacks, connect to the VIDEO INPUT jacks of the VCR used for recording.

**[AUDIO OUT (L, R)]**

When copying program material from the video component connected to the VCR 2 or LD jacks, or when recording music from an audio component source, connect to the AUDIO INPUT jacks of the VCR used for recording.

**[VIDEO IN]**

When monitoring the video image from a VCR used for playing, connect its VIDEO OUTPUT jacks here.

**[AUDIO IN (L, R)]**

When monitoring the audio channel from a VCR used for playing, connect its AUDIO OUTPUT jacks here.

### ⑦ PRE OUT jacks

**[FRONT AMP]**
When a separate power amplifier is used to drive the front speakers, connect the power amplifier to these jacks.

**[CENTER AMP]**
When a separate power amplifier is used to drive the surround center speaker, connect the power amplifier to this jack.

**[REAR AMP]**
When a separate power amplifier is used to drive the rear speakers, connect the power amplifier to these jacks.

### ⑧ CENTER SPEAKER terminals

Connect the center speaker to these terminals.

***NOTE:***
*Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.*
*Use center speakers of impedance 8 Ω — 16 Ω.*

### ⑨ REAR SPEAKERS terminals

Connect the rear speakers to these terminals.

***NOTE:***
*Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.*
*Use rear speakers of impedance 8 Ω — 16 Ω.*

### ⑩ FRONT SPEAKERS terminals

**A:** Connect to the first set of speakers.
**B:** Connect to the second set of speakers.

**Speaker lead wire preparation and connection.**

***NOTE:***
*Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctioning or breakdowns may occur when conductors come into contact with each other.*
*Use speakers of impedance 8 Ω — 16 Ω.*

### ⑪ PHONO input jacks

Connect to the output cables from a turntable.

### ⑫ GND terminal

Connect the turntable ground lead to this terminal.

### ⑬ CD input jacks

Connect to the output jacks of a compact disc player.

### ⑭ TV jacks (input)

Use these jacks if you wish to connect a TV tuner with both video and audio outputs.

**[VIDEO IN]**
Connect the TV tuner's VIDEO OUTPUT to this jack.

**[AUDIO IN (L, R)]**
Connect the TV tuner's AUDIO OUTPUT to these jacks.

### ⑮ LD jacks

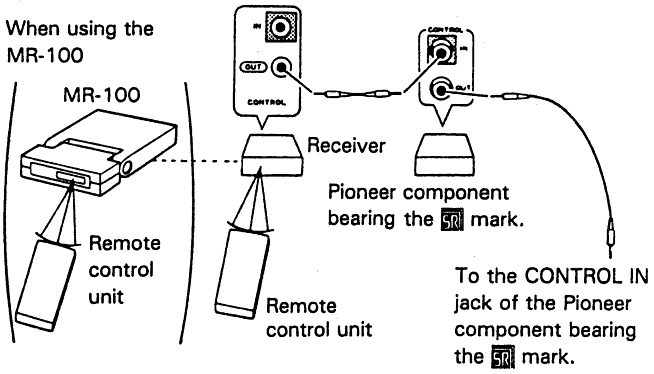
**[VIDEO IN]**
When watching the video image from an LD player, connect its VIDEO OUTPUT jacks here.

**[AUDIO IN (L, R)]**
When playing back the audio channel from an LD player, connect its AUDIO OUTPUT jacks here.

### ⑯ CONTROL IN/OUT jacks

**IN:** Connect this jack to other Pioneer components (main unit or remote control unit) when using those components to control this unit.
**OUT:** Connect this jack to other Pioneer components when using the remote control of this unit to control the other components.

***NOTE:***
*The receiver's remote sensor does not function when a plug is inserted in IN jack. To operate, point the remote control unit at the remote sensor on the component to which the receiver's IN jack is connected.*


When using the MR-100
MR-100
Remote control unit
OUT
CONTROL
Receiver
Pioneer component bearing the SR mark.
Remote control unit
To the CONTROL IN jack of the Pioneer component bearing the SR mark.

### ⑰ MULTI-ROOM REMOTE IN jack

Connect to the separately sold MR-100 Multi-Room remote control unit.

### ⑱ AC OUTLETS

#### [U.S. and Canadian models]

**[SWITCHED TOTAL 100 W (0.8 A) MAX]**
Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W (0.8 A).

**[UNSWITCHED 100 W (0.8 A) MAX]**
Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W (0.8 A).
The equipment should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.

#### [Multi-voltage model]

**SWITCHED TOTAL 100 W MAX**
Power supplied through these outlets is turned on and off by the receiver's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

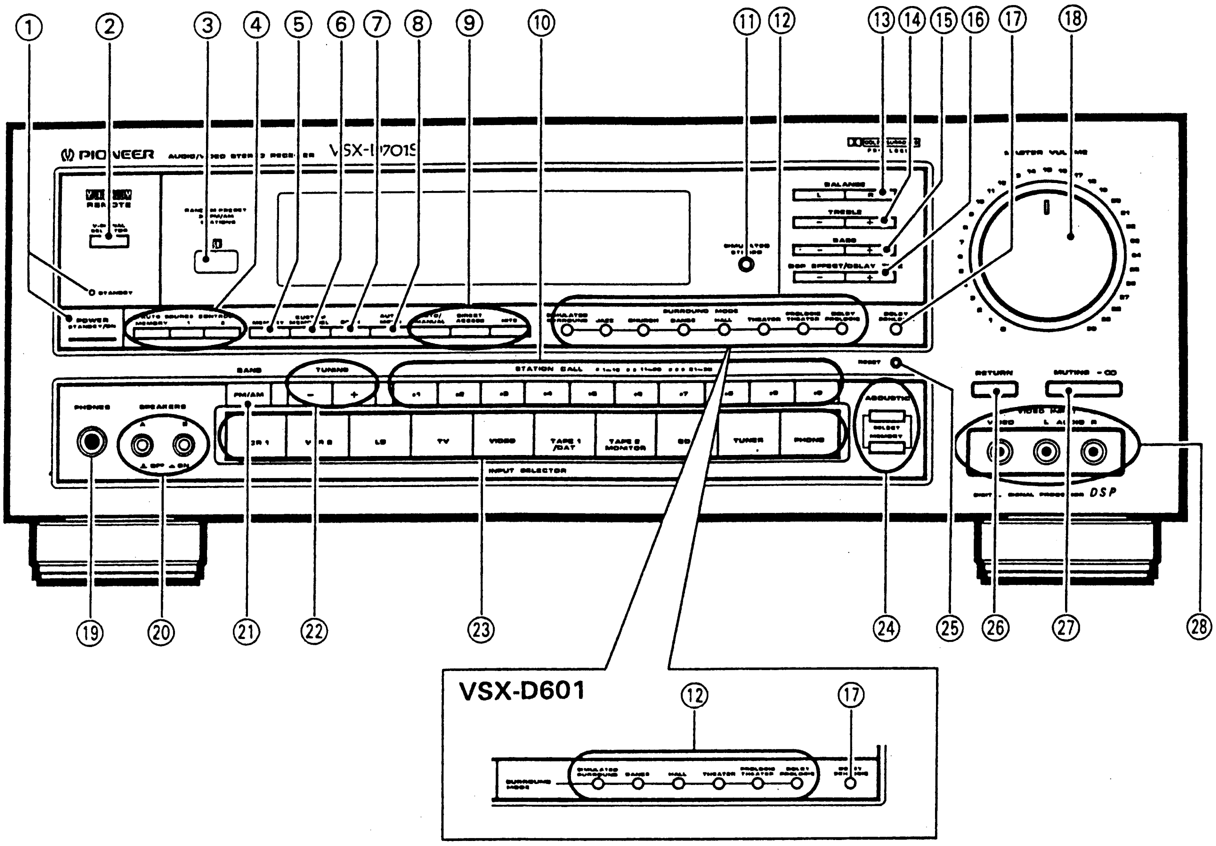
**UNSWITCHED 100 W MAX**
Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

***NOTE:***
- *This unit should be disconnected by removing the power plug from the wall socket when not in regular use, e.g. when on vacation.*
- *Do not connect appliances with high power consumption such as heaters, irons, or television sets to these AC OUTLETS in order to avoid overheating and fire risk.*
  *This can cause the receiver to malfunction.*

CAUTION:
DO NOT CONNECT MONITOR OR TV SET.

### ⑲ Power cord

- Illustration shows model VSX-D701S.



### ① POWER STANDBY/ON switch/STANDBY indicator

This is the switch for electric power.

**ON:** When set to the ON position, power is supplied and the unit becomes operational.

**STANDBY:** When set to STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.
The STANDBY indicator lights when the power is STANDBY, and goes out during ON.

**[Timer ON/OFF possible]**
When the unit is switched ON, ON/OFF control can be performed by means of the optional timer.

***NOTE:***
*When the power is initially turned ON, muting will be applied to prevent sound from being output for about 5 seconds.*

### ② V-SIGNAL (VIDEO SIGNAL) SELECTOR button

Use to change the video signal in sequence leaving the sound unchanged.

→VCR 1 → VCR 2 → LD → TV → VIDEO → OFF

The current setting is shown by an indicator on the display section.

### ③ Remote sensor

### ④ AUTO SOURCE CONTROL/MEMORY buttons

**1, 2 buttons:**
These buttons are for memorizing and recalling your current settings. Both 1 and 2 can be used to memorize settings. If you connect another component, such as a CD player, to the CONTROL OUT jack on the rear panel, the signals to switch power on and start play are also transmitted.

**MEMORY:**
Use when memorizing settings to a 1, 2 button.

### ⑤ MEMORY button

Pressing this button will result in the memorization of the current broadcast band, reception frequency, and FM AUTO/MONO mode. This button is also used for custom memory operation.

### ⑥ CUSTOM MEMO SEL button

Recall a genre name with this button.

### ⑦ SCAN button

Operate when the INPUT SELECTOR is set to TUNER. Station frequencies assigned to the STATION CALL buttons are tuned in, one after another, beginning with the current station no., for approximately 5 seconds each. The display section SCAN indicator will light. Press the button again and the tuner remains tuned in to the station playing when the button was pressed the second time.

Station frequencies not assigned to station numbers in the memory are skipped.

When you have selected a CUSTOM MEMORY genre, memory scan is performed on the stations in that genre.

### ⑧ FM Mode AUTO/MONO button

Use to select the auto stereo mode or monaural mode when listening to FM broadcasts. The monaural mode has been selected when the FM MONO indicator in the display section is lit.

**Auto stereo mode:**

Normally, leave in this mode for reception. When a stereo FM broadcast is received, it will be automatically reproduced in stereo.

**Monaural mode:**

When receiving distant stations or stations with weak broadcast signals, the input signal may be weak, thus resulting in increased noise during FM stereo broadcasts. In this event, setting the receiver to the monaural mode will reduce the noise. In this case, however, FM stereo broadcasts will be reproduced in monaural sound.

***NOTE:***

*This button has no effect on reception of AM broadcasts.*

### ⑨ Tuning buttons

#### AUTO/MANUAL tuning selector button:

Use to select the tuning mode. To select the AUTO tuning mode, press this button to light the AUTO TUNING indicator in the display section. To select the MANUAL tuning mode, switch off the AUTO TUNING indicator.

**AUTO tuning**

When the – or + TUNING button is pressed, the receiver automatically scans the broadcast station frequencies. When a broadcast is detected, the scanning stops at that frequency.

***NOTE:***

*Pressing the TUNING button (– or +) while scanning is taking place causes scanning to stop.*

**MANUAL tuning**

This lets you manually tune to particular broadcast frequencies. Each press of the + or – button raises or lowers the frequency by one tuning step. For continuous scanning, keep the button pressed, then release it to stop scanning.

#### DIRECT ACCESS tuning button:

When this button is pressed, the STATION CALL buttons function as ten-key number buttons for direct input of the desired reception frequency. Press again to cancel this mode.

If the input station falls outside of the receiver's tuning range, the display section will display a message: "UPPER" if the frequency is too high and "LOWER" if it is too low.

#### HITS (Hyper Intelligent Tuning System) button:

Press this button, and search automatically begins up and down the frequency for stations that can be received. When a station that can be received is found, the search operation stops.

### ⑩ STATION CALL buttons

Up to 30 FM or AM stations can be preset at random.

These buttons are used to preset and recall desired broadcasting stations, FM AUTO/MONO mode.

***NOTE:***

*Pressing a STATION CALL button will select TUNER as the source, regardless of what other listening source or function was selected. They are also used when performing direct access tuning.*

### ⑪ SIMULATED STEREO button

Press to produce a simulated stereo effect when listening to monaural sources (for example, normal AM or TV broadcasts).

"SIMULATED STEREO" appears on the display section.

***NOTE:***

- *This effect is not produced through the rear speakers.*
- *Use with the SURROUND MODE in the OFF.*

### ⑫ SURROUND MODE selector buttons

"SURROUND EFFECT"

### ⑬ BALANCE buttons

Use them to adjust the sound volume balance between left and right speakers.

**L:** Press to decrease the sound on the right side.

**R:** Press to decrease the sound on the left side.

Press L and R together to bring the volume balance back to center.

***NOTE:***

*The left-right sound volume balance cannot be adjusted on the rear speakers.*

### ⑭ TREBLE control buttons

Use to adjust the high-frequency level. Press the + button to increase the high-frequency level, and the – button to decrease it.

The TONE indicator appears on the display section.

When both buttons (–, +) of the TREBLE control are pressed simultaneously, the treble response will be set to the flat (normal) condition.

### ⑮ BASS control buttons

Use to adjust the low-frequency level. Press the + button to increase the low-frequency level, and the – button to decrease it.

The TONE indicator appears on the display section.

When both buttons (–, +) of the BASS control are pressed simultaneously, the bass response will be set to the flat (normal) condition.

### ⑯ DSP EFFECT/DELAY TIME buttons

**[DSP EFFECT]**

When using a surround mode other than DOLBY PRO LOGIC SURROUND, 10-step adjustment of the effect level is possible from 10 to 100.

**[DELAY TIME]**

Operates when the DOLBY PRO LOGIC SURROUND mode is ON. Switches to surround delay time in 8 steps. For DOLBY PRO LOGIC SURROUND, 20 ms is standard.

Changes in 2 ms steps.

16 ms ←→ 18 ms ←→ ··· ←→ 28 ms ←→ 30 ms

## ⑰ DOLBY 3CH LOGIC button

Select this setting when stereo-source regeneration and rear speakers are not connected and you wish to use the front L, front R, and center speakers to enjoy audio/visual material bearing the DOLBY SURROUND mark.

## ⑱ MASTER VOLUME control

Use it to simultaneously adjust the sound volume from the front, center and rear speakers.

## ⑲ PHONES jack

Connect the plug on your headphones to this jack. Set all SPEAKERS A and B switches to OFF if you want to cut the sound from speakers and listen to it only through the headphones.

## ⑳ SPEAKERS buttons (A, B) ■ OFF ▬ ON

ON/OFF switches for the A and B speaker systems.

*NOTE:*

*No sound will be heard thorough the speakers when both A and B buttons are depressed if only one set of speakers has been connected to either A or B SPEAKERS terminals.*

## ㉑ BAND (FM/AM) button

Use this to switch between FM and AM frequency band reception.

## ㉒ TUNING buttons

+ : Performs tuning from the currently displayed station frequency in ascending frequency order.

– : Performs tuning in order of descending frequencies.

## ㉓ INPUT SELECTOR buttons

| | |
|---|---|
| **VCR 1:** | Press when performing playback on a first VCR unit. |
| **VCR 2:** | Press when performing playback on a second VCR unit. |
| **LD:** | Press when performing playback on an LD player. |
| **TV:** | Press when using a TV tuner connected to the TV jacks. |
| **VIDEO (VSX-D701S only):** | Press when performing playback on a VCR connected to VIDEO INPUT jacks on the front panel. |
| **TAPE 1/DAT:** | Press when performing playback on a DAT or cassette deck. |
| **TAPE 2 MONITOR:** | Press when performing playback on a second cassette deck or second DAT and when monitoring recording. |
| **CD:** | Press when playing compact discs on a CD player. |
| **TUNER:** | Press when listening to radio broadcasts. |
| **PHONO:** | Press when playing records on turntable. |

## ㉔ ACOUSTIC buttons

**MEMORY:**

Pressing this button will result in the memorization of the sound quality (tone control condition). Press again to cancel this mode.

**SELECT:**

- This button is used to preset the five acoustic memories (A–E).
- This button is also used to recall previously set sound quality settings. Each time you press the button, the sound quality setting advances in the order shown below.

┌→ FLAT → LOUDNESS → A → B → C → D → E ─┐
└──────────────────────────────────────┘

| | |
|---|---|
| **FLAT:** | For flat (normal) frequency response. |
| **LOUDNESS:** | Emphasizes the low- and high- frequency ranges. Produces a fuller sense of sound, particularly when listening at low volume. |
| **A–E:** | Memorized acoustic memory settings. |

## ㉕ RESET button

Use this when normal operation becomes impossible because of external influences such as static electricity or lightning, or when operation is impossible even when operation buttons are pressed. Press this button to return to normal operating conditions.

If you press this button when the power is ON, the unit switches to POWER STANDBY, and the entire contents of the memory are erased.

## ㉖ RETURN button

Press this button to return the receiver into the initial state. TUNER is selected at this initial state. Adjust the sound level by using the MASTER VOLUME control.

- TAPE 2 MONITOR ....... OFF
- SURROUND MODE....... OFF
- MUTING ..................... OFF
- BALANCE ............. CENTER
- FUNCTION.............. TUNER
- V-SIGNAL SELECTOR.... OFF
- TONE ........................... flat

The HITS function searches for broadcast stations among the frequencies displayed.

*NOTE:*

*If no sound is output after the RETURN button is pressed, make sure that SPEAKERS buttons are turned on.*

## ㉗ MUTING button

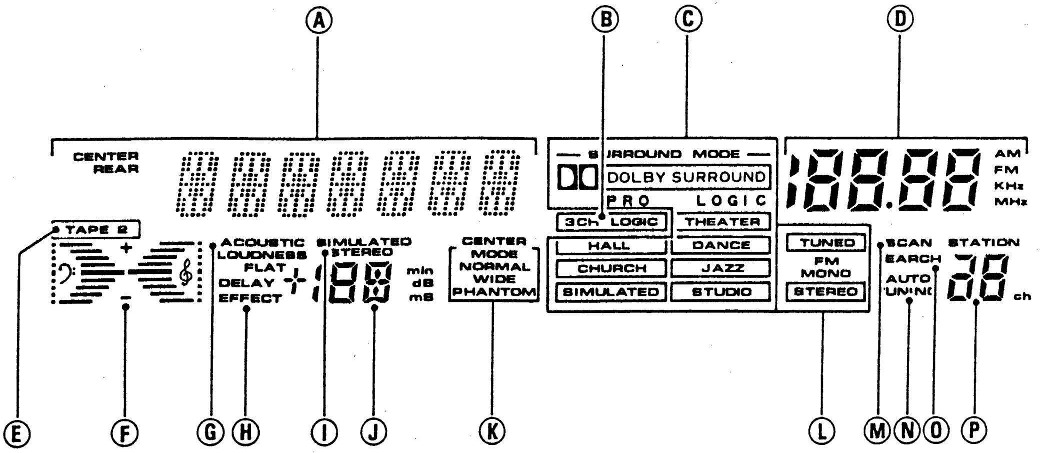
Press to temporarily cut off the sound volume. When pressed again, the sound will return to its previous level.

## ㉘ VIDEO INPUT jacks (VSX-D701S only)

VIDEO components such as a VCR or TV camera, etc. can be connected.

## DISPLAY SECTION

- The illustration shows the VSX-D701S. SURROUND MODE indicators on the VSX-D601 are different.


Ⓐ
Ⓑ
Ⓒ
Ⓓ
CENTER
REAR
SURROUND MODE
DOLBY SURROUND
PRO LOGIC
3Ch LOGIC
THEATER
HALL
DANCE
CHURCH
JAZZ
SIMULATED
STUDIO
AM
FM
KHz
MHz
TAPE 2
ACOUSTIC
LOUDNESS
FLAT
DELAY
EFFECT
SIMULATED STEREO
min
dB
mS
CENTER MODE
NORMAL
WIDE
PHANTOM
TUNED
FM MONO
STEREO
SCAN
SEARCH
AUTO TUNING
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### Ⓐ CHARACTER/LEVEL/BALANCE display

- This displays the name of the component selected with the INPUT SELECTOR and V-SIGNAL SELECTOR, etc.
- It also displays the level and balance settings during adjustment.

### Ⓑ DOLBY 3CH LOGIC indicator

### Ⓒ SURROUND MODE indicators

### Ⓓ Frequency/Band display

### Ⓔ TAPE 2 indicator

Lights up when the INPUT SELECTOR is set to TAPE 2 MONITOR ON.

### Ⓕ TONE level indicator

Shows the settings of the BASS and TREBLE buttons.

### Ⓖ ACOUSTIC display

### Ⓗ DELAY/EFFECT indicator

### Ⓘ SIMULATED STEREO indicator

### Ⓙ ACOUSTIC/DELAY TIME/EFFECT LEVEL/LEVEL/SLEEP TIME display

- Indicates delay time (ms) when using DOLBY PRO LOGIC SURROUND.
- Indicates rear level and center level (dB).
- Indicates sleep timer settings (min).
- Displays Acoustic memory letters A to E.
- Displays surround effect level from 10 to 100.

### Ⓚ CENTER MODE indicators

These display the center mode (NORMAL, WIDE, PHANTOM) during DOLBY PRO LOGIC SURROUND and DOLBY 3CH LOGIC operation

### Ⓛ Tuning indicators

| | |
|---|---|
| **TUNED:** | Lights up when a station is tuned. |
| **FM MONO:** | Lights up when the FM MONO mode is selected with the FM MODE AUTO/MONO button. |
| **STEREO:** | Lights up when a stereo FM broadcast is being received. |

### Ⓜ SCAN indicator

Lights up during memory scan operation.

### Ⓝ AUTO TUNING indicator

Lights up when in the auto tuning mode.

### Ⓞ SEARCH indicator

### Ⓟ STATION display

Indicates the channel (ch) selected with the STATION CALL buttons.